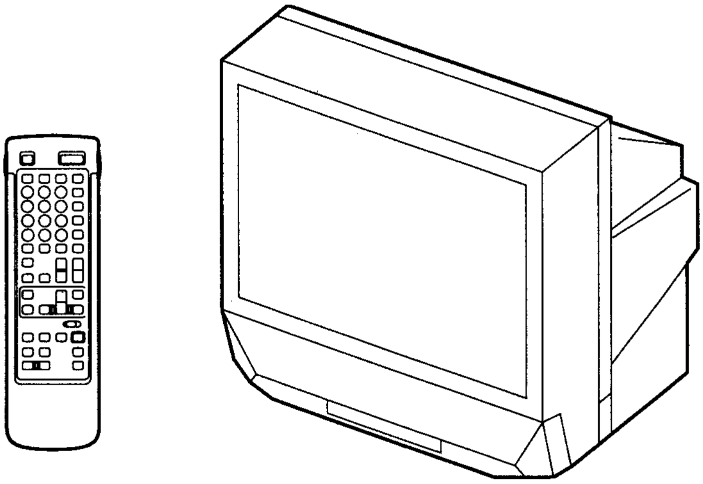
# SERVICE MANUAL

# RE-1 CHASSIS

| MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|
| KP-41S3 | RM-831 | AEP | SCC-K27A-A |
| KP-41S3K | RM-831 | OIRT | SCC-K28A-A |
| KP-41S3U | RM-831 | UK | SCC-K29A-A |

| MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|



MICROFILM

※ Please file according to model size.................. ▩

41

## PROJECTION TV

**SONY®**

# SPECIFICATIONS

| | |
|---|---|
| Television system | B/G/H,D/K,I,L |
| Colour system | PAL/SECAN and NTSC 3.58/NTSC4.43 (VIDEO IN) |
| Channel coverage | See " Receivable channels and channel displays " at the bottom. |
| Projected picture size | 103cm (41 inches) |
| Terminals | |
| Rear | -⊖1 21-pin Euro connector (CENELEC standard) inputs for audio and video signals<br>- inputs for RGB<br>- outputs of TV video and audio signals<br>⊖→ 2/ -ⓢ 2 21-pin EURO connector<br>- inputs for audio and video signals<br>- inputs for S Video<br>- outputs for audio and video signals (selectable)<br>⊖→ 4/ -ⓢ 4 21-pin Euro connector<br>- inputs for audio and video signals<br>- inputs for S video<br>- outputs for audio and video signals (monitor out)<br>-ⓢ 2, -ⓢ 4 S video inputs<br>- 4 pin DIN<br>-⊙ Audio inputs (L,R) - phono jacks<br>ⓢ-S video output 4-pin DIN<br>⊙→ Audio outputs-phono jacks<br>⊙→ Audio outputs (variable)-phono jacks<br>External amplifier connectors. 2 terminals |
| Front | -⊖3 video input-phono jack<br>-⊙ Audio inputs-phono jacks<br>-ⓢ 3 S video input-4-pin DIN<br>∩ Headphone jack :stereo minijack |
| Sound output | 2 x 30W (music power)<br>2 x 15W (RMS) |
| Power consumption | 175W |
| Dimensions(WxHxD) | Approx. 951x991x 588 mm |
| Weight | Approx. 56kg |
| Supplied accessories | See page 6. |
| Optional accessories | TV stand (SU-41S) |
| Other features | Digital comb filter (High resolution)<br>PIP (Picture-in-picture)<br>FASTEXT<br>NICAM |

Design and specifications are subject to change without notice.

## Receivable Channel and Channel Displays

| | Receivable channel | Iudication on the screen |
|---|---|---|
| PAL B/G/H | E2..12 21..69 | C02 C03 C04..C12 C21..C69 |
| CABLE TV (1) | S1..41 | S01 S02..S41 |
| CABLE TV (2) | S01..S05 M1..M10 U1..U10 | S42..S46 S01..S10 S11..S20 |
| ITALIA | A B C D E F G H H1 H2 21..69 | C11..C69 |
| SECAM D/K | R01..R12 R21..R60 | C02..C12 C21..C60 |
| SECAM L | F2..F10 F21..F69 | C01..C12 C21..C69 |
| PAL I | B21.. B68 | C21..C68 |

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(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESECOMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFEOPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

(ATTENTION)

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA
SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES CONT D'UNEIMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT EST SUSPECTÉ.

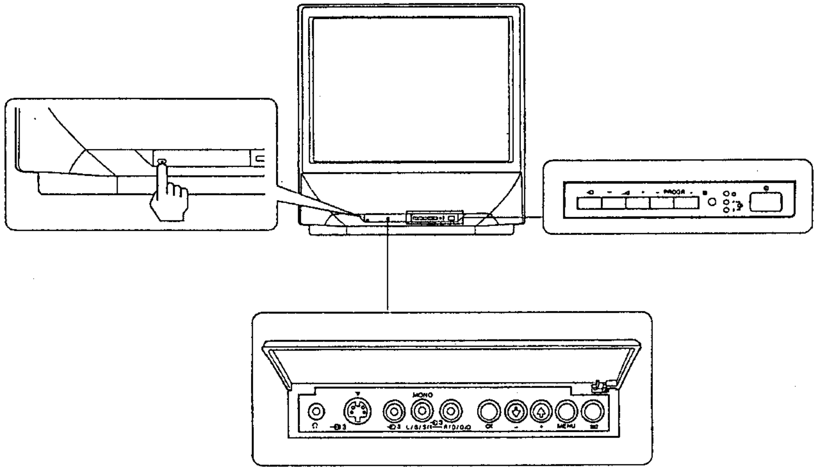
# SECTION 1
# GENERAL

The operation instruction mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

## Overview

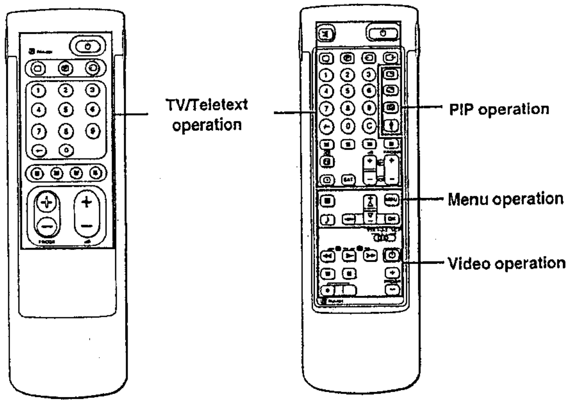
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

### TV set-front



| Symbol | Name | Refer to page |
|---|---|---|
| ⏼ | Main power switch | 13 |
| ⏻ | Standby indicator | 13 |
| A-ꝏ-B | Stereo A/B indicators | 15 |
| PROGR +/– | Programme selector | 14 |
| ◿ +/– | Volume selector | 14 |
| ⇥⊐ | Input selector | 14 |
| ⏩⊐ | Automatic Preset button | 14 |
| MENU | Menu on/off button | 14 |
| ⇧+/⇩– | Menu control | 14 |
| OK | Confirmation button | 14 |
| ⇥Ⓢ 3, ⇥⊐ 3, ⇥⊙ 3 | Input jacks (S video/video/audio) | 21 |
| ∩ | Headphones jack | 21 |

Remote commander



Simple side

Full-Function side

**Note**
The SAT button does not operate with this TV.

### TV/Teletext operation

| Symbol | Name | Refer to page |
|---|---|---|
| 🔇 | Mute on/off button | 14 |
| ⏻ | Standby button | 13 |
| ▢ | TV power on/TV mode selector button | 13 |
| ⊜ | Teletext button | 14 |
| ⇥⊐ | Input mode selector | 22 |
| ⊏→ | Output mode selector | 22 |
| 1,2,3,4,5,6,<br>7,8,9,and 0 | Number buttons | 13 |
| -/-- | Double-digit entering button | 13 |
| C | Direct channel entering button | 10 |
| ◿+/– | Volume control button | 13 |
| PROGR +/– | Programme selectors | 13 |
| ⊞ ⊞ | Teletext page access buttons | 18 |
| ■ | Picture adjustment button | 15 |
| ♪ | Sound adjustment button | 15 |
| ⊕ | On-screen display button | 14 |
| ⊞ | Teletext hold button | 18 |
| ◎ | Time display button | 14 |
| ■■■■ | Fastext buttons | 18 |

### PIP (Picture-in-picture) operation

| Symbol | Name | Refer to page |
|---|---|---|
| ◔ | PIP on/off button | 17 |
| ↑ | PIP source selector | 17 |
| ◕ | Swap button | 17 |
| ◒ | PIP position changing button | 17 |

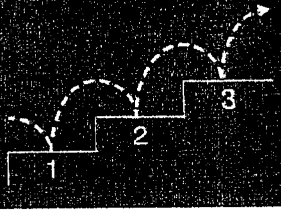
### Menu operation

| Symbol | Name | Refer to page |
|---|---|---|
| MENU | Menu on/off button | 7 |
| Δ+/ ∇– | Select buttons | 7 |
| OK | OK(confirming)button | 7 |
| ← | Back button | 7 |

### Video operation

| Symbol | Name | Refer to page |
|---|---|---|
| VTR1/2/3, MDP | Video equipment selector | 23 |
| ◀◀ ▶ ▶▶ ■<br>❚❚ ● ⏻<br>PROGR +/– | Video equipment operation buttons | 23 |

# Getting Started

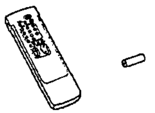


## Step 1 Preparation

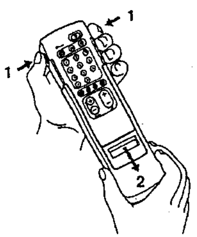
### ❶ Check the supplied accessories

When you've taken everything out of the carton, check that you have these items:

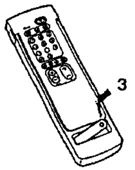
- RM-831 Remote Commander
- One IEC designation R6 battery



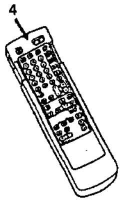
### ❷ Insert the battery into the Remote Commander



Remove the cover.



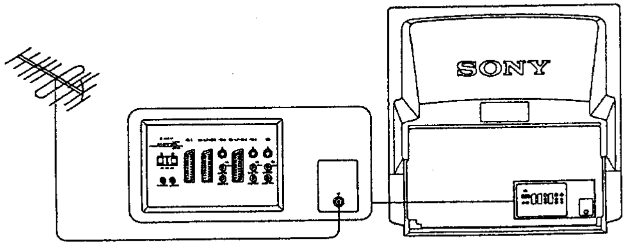
Check the correct polarities.



Refit the outside cover making sure that the Full-Function side is visible to use the menu in step 2.

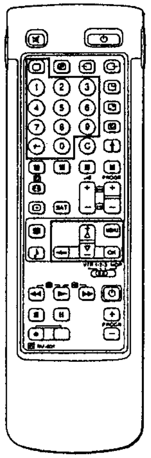
**Note:** Always remember to dispose of used batteries in an environmental friendly way.

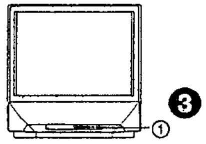
### ❸ Connect the aerial



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the ⫪ socket at the rear of the TV.

## Step 2 Adjusting Colour Registration (Convergence)





Once you have set up the TV, you can choose the language of the menu. Then you should converge the three colour layers (red, green, and blue).

### Before you begin

- Check that the Full-Function side of the Remote Commander is visible.
- Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

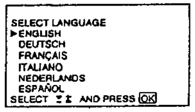
### ❶ Choose a language

1 Press ① on the TV.
The TV will switch on. If the standby indicator on the TV is lit, press ▢ or a number button on the Remote Commander.

2 Press MENU.
The LANGUAGE menu appears. (See Fig. 1).

3 Select the language you want with Δ + or ∇ – and press OK.

4 Press ← to return to the main menu.



SELECT LANGUAGE
▶ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
NEDERLANDS
ESPAÑOL
SELECT ∇Δ AND PRESS OK

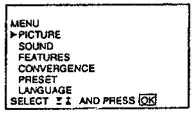
Fig. 1

### ❷ Display the menu

Press MENU.

The main menu appears. (See Fig.2)

MENU



MENU
▶PICTURE
SOUND
FEATURES
CONVERGENCE
PRESET
LANGUAGE
SELECT ∇Δ AND PRESS OK

Fig. 2

### ❸ Converge the red, green and blue lines

1 Select "CONVERGENCE" with Δ + or ∇ – and press OK.
The CONVERGENCE menu appears. (See Fig. 3.)

2 Select "the line" you want to adjust with Δ+ or ∇–.
Key to line adjustment symbols:
I (red vertical – left/right adjustment)
– (red horizontal – up/down adjustment)
I (blue vertical – left/right adjustment)
– (blue horizontal – up/down adjustment)

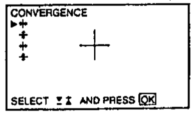
3 Press OK.
The line to adjust is selected.

4 PressΔ+ or ∇– to converge the selected line with the centre green line and press OK.

| To move up (horizontal line)<br>To move right (vertical line) | Press Δ+ |
|---|---|
| To move down (horizontal line)<br>To move left (vertical line) | Press ∇– |

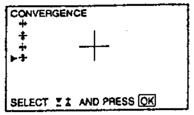
5 Repeat steps 2 to 4 to adjust the other lines, until all the lines have overlapped to form a white cross. (See Fig. 4.)

6 Press MENU to return to TV picture.



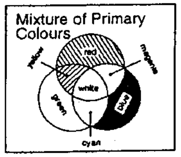
CONVERGENCE
SELECT ∇Δ AND PRESS OK

Fig. 3

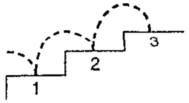


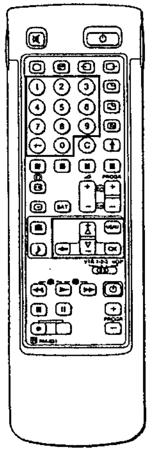
CONVERGENCE
SELECT ∇Δ AND PRESS OK

Fig. 4



# Step 3 Tuning in to TV Stations



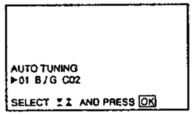


**To go back to the main menu**
Keep pressing ←.

**To stop automatic channel presetting**
Press ← on the Remote Commander.

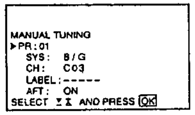
**Notes**
- After presetting the channels automatically, you can check which channels are stored on which programme positions.
- You can exchange the programme positions to have them appear on screen in the order you like. For details, see "Exchanging the Programme Positions" on page 10.

You can preset the channels (up to 100 channels) by choosing either the automatic or manual method.
The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one.



```
AUTO TUNING
▶01  B/G  C02

SELECT ▼▲ AND PRESS OK
```



```
MANUAL TUNING
▶PR : 01
   SYS :   B/G
   CH :    C03
   LABEL : -----
   AFT :   ON
SELECT ▼▲ AND PRESS OK
```

## Preset Channels Automatically

1 Press MENU to display the main menu.

2 Select "PRESET" with Δ+ or ∇– and press OK.
The PRESET menu appears. (See Fig. 5.)

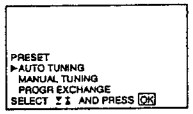
3 Select "AUTO TUNING" with Δ+ or ∇– and press OK.
The AUTO TUNING menu appears. (See Fig. 6.)

4 Select the programme with -/- - and enter the digit numbers from which you want to start presetting.

5 Press OK. Select if necessary the TV broadcast system with Δ+ or ∇– and press OK. (B/G for western European countries, D/K for eastern European countries, L for France and I for the United Kingdom.)

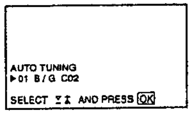
6 Using Δ+ or ∇–, select C (to start presetting from the C channels) or S ( to start presetting from the S channels) and press OK.
The automatic channel presetting starts.
When presetting is finished, the preset menu reappears. All available channels are now stored on successive number buttons.
If you want to change to another broadcasting system, repeat steps 3 to 5.

7 Press MENU to return to TV picture.



```
PRESET
▶AUTO TUNING
  MANUAL TUNING
  PROGR EXCHANGE
SELECT ▼▲ AND PRESS OK
```

Fig. 5



```
AUTO TUNING
▶01  B/G  C02

SELECT ▼▲ AND PRESS OK
```

Fig. 6

Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

**If you have made a mistake**
Press ← to go back to the previous position.

**To return to the main menu**
Keep pressing ←.

## Preset Channels Manually

1 Press MENU to display the main menu.

2 Select "PRESET" with Δ+ or ∇– and press OK. (See Fig. 7.)

3 Select "MANUAL TUNING" with Δ+ or ∇– and press OK.
The MANUAL TUNING menu appears. (See Fig. 8.)

4 Using Δ+ or ∇–, select the programme position to which you want to preset a channel, and press OK.
You can also select the programme position with the number buttons (e.g, for programme 24, press -/--, 2 and 4).

5 Select, if necessary, the TV broadcast system (B/G for western European countries, D/K for eastern European countries, L for France and I for the United Kingdom) with Δ+ or ∇–. Then press OK.

6 Using Δ+ or ∇–, select C (to preset a regular channel), S (to preset a cable channel) and press OK.

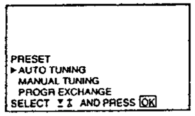
7 Press Δ+ or ∇– until the channel you want appears on the screen.
You can also select the channel directly using the number buttons.
Press C (once for VHF/UHF channels, twice for cable TV channels), then the number buttons (e.g., for channel 5, press 0 and 5).
Then press OK.

### *To preset other channels*

Repeat steps 4 to 7.

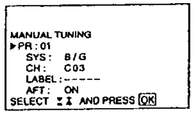
### *To return to TV picture*

Press MENU.



```
PRESET
▶AUTO TUNING
  MANUAL TUNING
  PROGR EXCHANGE
SELECT ▼▲ AND PRESS OK
```

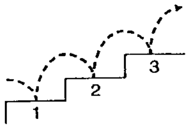
Fig. 7



```
MANUAL TUNING
▶PR : 01
   SYS :   B/G
   CH :    C03
   LABEL : -----
   AFT :   ON
SELECT ▼▲ AND PRESS OK
```

Fig. 8

# Additional Presetting Functions



This section shows you additional presetting functions such as exchanging or skipping programme positions, captioning a station name, and manual fine-tuning.

You can skip this section, if not needed.

### Before you begin

- Check that the Full Function side of the Remote Commander is visible.
- Locate the Menu operation buttons.

**PROGRAMME EXCHANGE**

## Exchanging Programme Positions

With this function, you can exchange the programme positions to a preferable order.

1 Press MENU to display the main menu.

2 Select "PRESET" with Δ+ or ∇– and press OK. The PRESET menu appears.

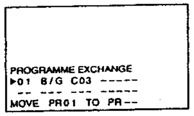
3 Select "PROGRAMME EXCHANGE" with Δ+ or ∇– and press OK. The PROGRAMME EXCHANGE menu appears. (See Fig. 9.)

4 Using Δ+ or ∇–, select the programme position you want to exchange with another and press OK.

5 Using Δ+ or ∇–, select the programme position to be exchanged and press OK. Now the two programme positions have been exchanged.

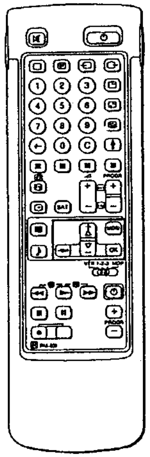
6 Repeat steps 4 and 5 to exchange other programme positions.

7 Press MENU to return to TV picture.



```
PROGRAMME EXCHANGE
▶01  B/G  C03  -----
 --  ---  ---  -----
MOVE  PR01  TO  PR--
```

Fig. 9



**If you have made a mistake**
Press ⟵ to go back to the previous position

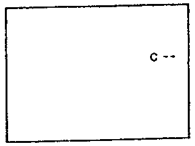
**To go back to main menu**
Keep pressing ⟵.

## Tuning in to a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

1 Press C on the Remote Commander. For cable channels, press C twice. The indication "C" ( "S" for cable channels) appears on the screen. (See Fig. 10.)

2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.



```
C --
```

Fig. 10

**MANUAL TUNING**

## Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROGR +/– buttons. However, the skipped programmes may still be called up when you use the number buttons.

1 Press MENU to display the main menu.

2 Select "PRESET" with Δ+ or ∇– and press OK. The PRESET menu appears.

3 Select "MANUAL TUNING" with Δ+ or ∇– and press OK. The MANUAL TUNING menu appears. (See Fig.11.)

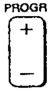
4 Using Δ+ or ∇–, select the programme position which you want to skip and press OK.

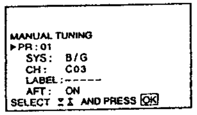
5 Press Δ+ or ∇– until "---" appears in the SYS position. (See Fig. 12.)

6 Press OK. When you select programmes using the PROGR +/– buttons, the programme position will be skipped.

7 Repeat steps 4 to 6 to skip other programme positions.

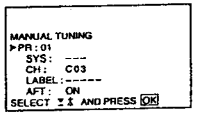
8 Press MENU to return to TV picture.





```
MANUAL TUNING
▶PR : 01
   SYS :   B/G
   CH :    C03
   LABEL : -----
   AFT :   ON
SELECT ⯆⯅ AND PRESS OK
```

Fig. 11



```
MANUAL TUNING
▶PR : 01
   SYS :   ---
   CH :    C03
   LABEL : -----
   AFT :   ON
SELECT ⯆⯅ AND PRESS OK
```

Fig. 12

**If you have made a mistake**
Press ⟵ to go back to the previous position.

**To go back to main menu**
Keep pressing ⟵.

**MANUAL TUNING**

## Captioning a Station Name

You can "name" a channel using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel you are watching.

1 Press MENU to display the main menu.

2 Select "PRESET" with Δ+ or ∇– and press OK. The PRESET menu appears.

3 Select "MANUAL TUNING" with Δ+ or ∇– and press OK. The MANUAL TUNING menu appears.

4 Select "PR" with Δ+ or ∇– and press OK.

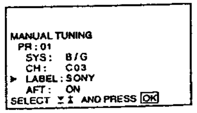
5 Select programme position you want to caption with Δ+ or ∇– and press OK.

6 Select "LABEL" with Δ+ or ∇– and press OK.

7 Select a letter or number with Δ+ or ∇– and press OK. Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 13.)

8 Repeat steps 4 to 7 to caption names for other channels.

9 Press MENU to return to TV picture.



```
MANUAL TUNING
  PR : 01
   SYS :   B/G
   CH :    C03
▶  LABEL : SONY
   AFT :   ON
SELECT ⯆⯅ AND PRESS OK
```

Fig.13

## Manual Fine-Tuning

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

1 Press MENU to display the main menu.

2 Select "PRESET" with Δ+ or ∇– and press OK.
The PRESET menu appears.

3 Select "MANUAL TUNING" with Δ+ or ∇– and press OK.
The MANUAL TUNING menu appears.

4 Select "PR" with Δ+ or ∇– and press OK.

5 Select programme position you want to manually fine-tune with Δ+ or ∇– and press OK.

6 Select "AFT" with Δ+ or ∇– and press OK.

7 Select "OFF" with Δ+ or ∇– and press OK. (See Fig. 14.)

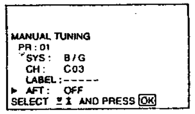
8 Fine-tune the channel with Δ+ or ∇– so that you get the best TV reception. As you press the cursor buttons, the frequency changes from – 128 to + 127.

9 After fine tuning, press OK.
Now the fine-tuned level is stored.

10 Repeat steps 4 to 9 to fine-tune other channels.

11 Press MENU to return to TV picture.

**To reactivate AFT (automatic fine tuning)**
Repeat from the beginning and select "ON" in step 7.



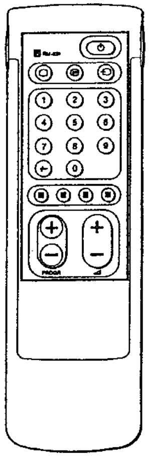
```
MANUAL TUNING
 PR : 01
  SYS :   B/G
  CH :    C03
  LABEL : -----
▸ AFT :   OFF
SELECT ▾▴ AND PRESS OK
```

Fig. 14

# Operating Instructions

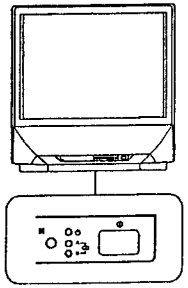
## Watching the TV

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.



**If no picture appears when you depress ⏀ on the TV and if the standby indicator on the TV is lit, the TV is in standby mode.**
Press ▢ or one of the number buttons to switch it on.

### Switching the TV on and off



#### *Switching on*

Depress ⏀ on the TV.

#### *Switching off temporarily*

Press ⏻ on the Remote Commander.
The TV enters standby mode and the standby indicator on the front of the TV lights up.

**To switch on again**

Press ▢, PROGR +/–, or one of the number buttons on the Remote Commander.

#### *Switching off completely*

Depress ⏀ on the TV.

### Selecting TV Programmes

Press PROGR +/– or press the number buttons.

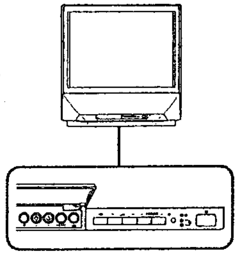
#### *To select a double-digit number*

Press -/--, then the numbers.
For example, If you want to choose 23, press -/--, 2, and 3

### Adjusting the Volume

Press ⊿ +/–.

## Operating the TV Using the Buttons on the TV



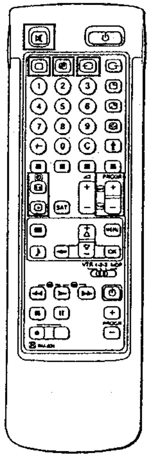
With the buttons on the TV, you can preset channels automatically, select programmes, adjust the volume, display the menu and select video input sources.

1 Press ⊞ to preset channels automatically. (See page 8).
2 Press PROGR +/– to select programmes.
3 Press ◿ +/ – to adjust the volume.
4 Press MENU / ⇧ + / ⇩ / OK to control menu.
5 Press ⊣◯ to select video input sources.

## Watching Teletext or Video Input

For details of the teletext operation, refer to page 18.

For details of the video input picture, refer to page 22.



### *Watching teletext*

1 Press ⊜ to view the teletext.
2 For teletext operation, enter a 3-digit page number with the number buttons to select a page.
For fastext operation, press one of the coloured buttons.
For both operations, press ⊕ (PAGE + ) for the next page or ⊖ (PAGE – ) for the preceding page.
3 To go back to the normal TV picture, press ◯ .

### *Watching a video input picture*

1 Press ⊣◯ repeatedly until the desired video input appears.
2 To go back to the normal TV picture, press ◯.

## More Convenient Functions

Use the Full-Function side of the Remote Commander.

### *Displaying the on screen indications*

- Press ⊕ once to display all the indications.
- Press ⊕ again to make the indications disappear.

### *Muting the sound*

Press 🔇 to mute speakers and headphones sound.
To resume normal sound, press 🔇 again.

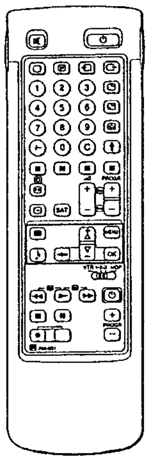
### *Displaying the time*

Press ⊚. This function is available only when teletext is broadcast.
To make the time display disappear, press ⊚ again.

# Adjusting and Setting the TV Using the Menu

**PICTURE**

**SOUND**



## Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones.

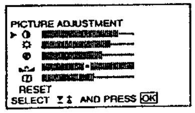


Fig. 15

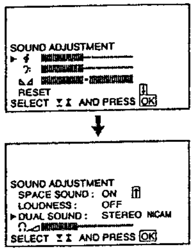


Fig. 16

1 Press ● (for picture) or ♪ (for sound) on the remote Commander.

or

Press MENU and select "PICTURE" or "SOUND," then press OK. The PICTURE ADJUSTMENT or SOUND ADJUSTMENT menu appears.
(See Fig. 15 or Fig. 16.)

2 Using △+ or ▽–, select the item you want to adjust and press OK.
To move up/down:
From ⇩ position, press ▽– to move down.
From ⇧ position, press △+ to move up.
⇩ means next page.
⇧ means previous page.
3 Adjust the setting with △+ or ▽– and press OK.
For the effect of each control, see the table below.
4 Repeat steps 2 and 3 to adjust other items.
5 Press MENU to return to TV picture.

Note: To prevent imprints on the screen from a non-moving pattern, the picture will shift about 5 mm every 2 hours. This is not a malfunction of the TV.

**If you have made a mistake**
Press ⇐ to go back to the previous position.
**To go back to the main menu**
Keep pressing ⇐.

**Note**
HUE is only available for NTSC colour systems.

**Note on LINE OUT**
The audio level and the dual sound mode output from the ⊖ jack on the rear correspond to the Headphone VOLUME and DUAL SOUND settings.

**When watching a video input picture**
You can select DUAL SOUND to change the sound.

### *Effect of each control*

| PICTURE ADJUSTMENT | Effect |
|---|---|
| ◑ (contrast) | Less ■■■——— More |
| ☼ (brightness) | Darker ■■■——— Brighter |
| ◎ (colour) | Less ■■■——— More |
| (hue) | Greenish ■■■-■■■ Reddish |
| ⓣ (sharpness) | Softer ■■■——— Sharper |
| RESET | Resets picture to the factory preset levels. |

| SOUND ADJUSTMENT | Effect |
|---|---|
| 𝄞 (Treble) | Less ■■■——— More |
| 𝄢 (Bass) | Less ■■■——— More |
| ◺◿ (Balance) | More left ■■■-■■■ More right |
| RESET | Resets sound to the factory preset levels. |
| SPACE SOUND | OFF: Normal ON: Obtain acoustic sound effect. |
| LOUDNESS | OFF: Normal ON: When listening to low volume sound. |
| DUAL SOUND* | A: channel 1 B: channel 2 Stereo mono<br>STEREO ←→ MONO<br>The selected mode of the A-◯-B Indicator on the TV lights up. |
| ♫ (Headphones) | Less ◿ ■■■——— |

*When receiving a NICAM programme

NICAM stereo/monaural STEREO NICAM → MONO
NICAM bilingual NICAM A → NICAM B → MONO

FEATURES

## Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

1 Press MENU to display the main menu.

2 Select "FEATURES" with Δ+ or ∇– and press OK.
The FEATURES menu appears.

3 Select "SLEEP TIMER" with Δ+ or ∇– and press OK. (See Fig. 17.)
The time period option changes colour.

4 Select the time period with Δ+ or ∇–.
The time period changes as follows:

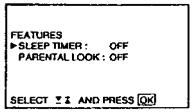
OFF → 0:30 → 1:00 → 1:30 → 2:00
↑_______________________________|

5 After selecting the time period, press OK.
The cursor moves back to the left margin and the timer starts counting.
One minute before the TV switches into standby mode, a message is displayed on the screen.

6 Press MENU to return to TV picture.

**To switch off the timer**
Select "OFF" in step 3.

**To check the remaining time**
Press ⊙.



FEATURES
▶SLEEP TIMER : OFF
PARENTAL LOOK : OFF

SELECT ▼▲ AND PRESS OK

Fig. 17

FEATURES

## Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

1 Select the TV programme which you want to block.

2 Press MENU to display the main menu.

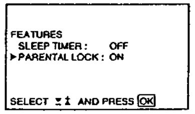
3 Select "FEATURES" with Δ+ or ∇– and press OK.
The FEATURES menu appears.

4 Select "PARENTAL LOCK" with Δ+ or ∇– and press OK.

5 Select "ON" with Δ+ or ∇– and press OK. (See Fig. 18.)

6 Press MENU to return to TV picture.

**If you try to select a programme that has been blocked**
The message "LOCKED" appears on the blank TV screen.



FEATURES
SLEEP TIMER : OFF
▶PARENTAL LOCK : ON

SELECT ▼▲ AND PRESS OK

Fig. 18

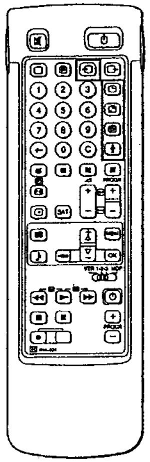
### Cancelling Parental Lock

1 On the PARENTAL LOCK menu, select "OFF" with Δ+ or ∇–.

2 Press OK.

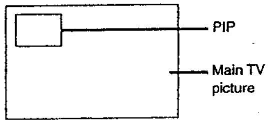
---

# PIP (Picture In Picture)



**Note**
RGB input source cannot be displayed in PIP.

With this function you can display a "PIP screen" (small picture) within the main TV picture. In this way you can watch or monitor the video output from any connected equipment (for example from a VTR) while watching TV or vice versa. For information about connection of other equipment, refer to page 21.



### Switching PIP on and off

Press ◔.
The PIP screen will be displayed. The PIP picture will come from the source chosen when the TV was last used.

**To Switch PIP off**
Press ◔ again.

### Selecting a PIP source

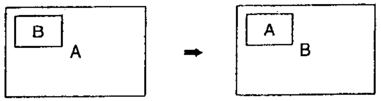
1 Press ↑.
The symbol ↑ will be displayed at the bottom, left-hand corner of the screen.

2 Press ⇥ repeatedly until the desired PIP source is indicated (e.g. TV, AV1, AV2, YC2, AV3, YC3, AV4, YC4).

**Note**
If no video source has been connected, the PIP picture will be noisy.

### Swapping screens

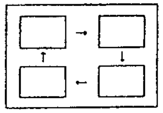
Press ⧉.
The main screen will switch the picture with the PIP screen.



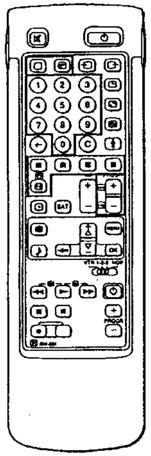
**Notes**
- If a TV programme is on the PIP screen and a video source on the main picture, and you want to change channels, first press ↑ and then the programme number buttons or PROGR +/–.
- Swapping screens takes about 2 seconds after pressing ⧉.
- After swapping screens if the colour systems of the main and PIP pictures are different, the PIP picture first appears in black and white and then in colour.

### Changing the position of the PIP

Press ⊡ repeatedly to change the position of the PIP screen within the main screen. There are four different positions available.



# Teletext



**Note**
Teletext errors may occur if the broadcasting signals are weak.

**With the simple side of the Remote Commander**
You can switch teletext on and off, operate Fastext, and directly select page numbers.

**Note**
Fastext operation is only possible, if the TV station broadcasts
Fastext signals.

TV stations broadcast an information service called Teletext via the TV channels.Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

## Direct Access Functions

### Switching Teletext on and off

1 Select the TV channel which carries the teletext broadcast you want to watch.

2 Press ⊜ to switch on teletext.
A teletext page will be displayed (usually the index page).
If there is no teletext broadcast, "No text available" is displayed on the information line at the top of the screen.

**To switch teletext off**

Press ○.

### Selecting a teletext page

**With direct page selection**

Use the number buttons to input the three digits of the chosen page number.
If you have made a mistake, type in any three digits. Then re-enter the correct page number.
If the requested page is not available at that moment, a message will be displayed.

**Accessing next or preceding page**

Press ⊞ (PAGE+) or ⊟ (PAGE-).
The next or preceding page appears.

**Superimposing the teletext display on the TV programme**

- Press ⊜ once in teletext mode or twice in TV mode.
- Press ⊜ again to resume normal teletext reception.

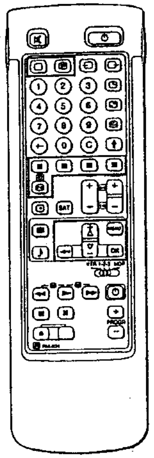
### Preventing a teletext page from being updated

- Press ⊕ (HOLD). The HOLD symbol "⊕" is displayed on the information line.
- Press ⊜ to resume normal teletext reception.

### Using Fastext

With Fastext you can access pages with one key stroke.
When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.
Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after a few seconds.

---



**Note**
Some of the features may not be available depending on the teletext service.

## Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched on, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 19.)

2 Using Δ+ or ∇–, select the teletext function you want and press OK.

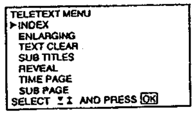


Fig. 19

### INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

### ENLARGING

For convenient reading of a teletext page, you can enlarge the teletext display with the ability to scroll up and down. After having selected the function, an information line TOP/BOTTOM/FULL will be displayed. (See Fig. 20.)

To enlarge the upper half with "TOP", select "TOP" and hold down the ∇–. To enlarge the lower half with "BOTTOM," select "BOTTOM" and hold down the Δ+. The picture can be scrolled up to 12 steps in each direction. Press OK for "FULL" to resume the normal size.

Press ⊜ to resume normal teletext reception.

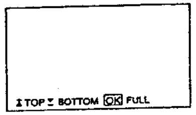


Fig. 20

### TEXT CLEAR

After selecting the function, you can watch a TV programme while waiting for a teletext page to be displayed. (See Fig. 21.)

Press ⊜ to resume normal teletext reception.

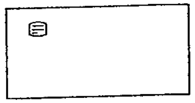


Fig. 21

### SUBTITLES

Your teletext service will inform you if a TV programme is subtitles.

After having selected the function the subtitles will be displayed.

### REVEAL

Sometimes pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, concealed information will be displayed.

By choosing REVEAL again on the menu, the concealed information will be canceled.

Press ⊜ to resume normal teletext reception.

### TIME PAGE

Your teletext service will inform you, if a time coded page is available. You may have a page (e.g. an alarm page) displayed at a certain time.

Press OK to select "OFF" for the TIME PAGE setting to cancel the request.

1 Using Δ+ or ∇–, select "ON." Press OK.
The TV programme you were watching before you selected TIME PAGE is restored.
An information window will be displayed at the bottom of the page.

2 To select the desired page, enter three digits for the page number (e.g.452) using the number buttons and press OK.

3 To select the desired time, enter four digits for the desired time (e.g. 1800) using the number buttons and press OK.
The selected time is displayed at the top in the left-hand corner.
At the requested time, the page will be displayed.
Press ⊜ to resume normal teletext mode.

**To cancel the request**
Select SUBPAGE and press OK.

### SUBPAGE

You may want to select a particular teletext page from several subpages which are rotated automatically. After having selected the function, an information line will be displayed.

To select the desired subpage, enter four digits using PROGR +/– or the number buttons (e.g. enter 0002 for the second page of a sequence).

**Note:**
"Time Page" and "Subpage" features may not be available depending on the teletext service.

# Connecting and Operating Optional Equipment

## Connecting Optional Equipment

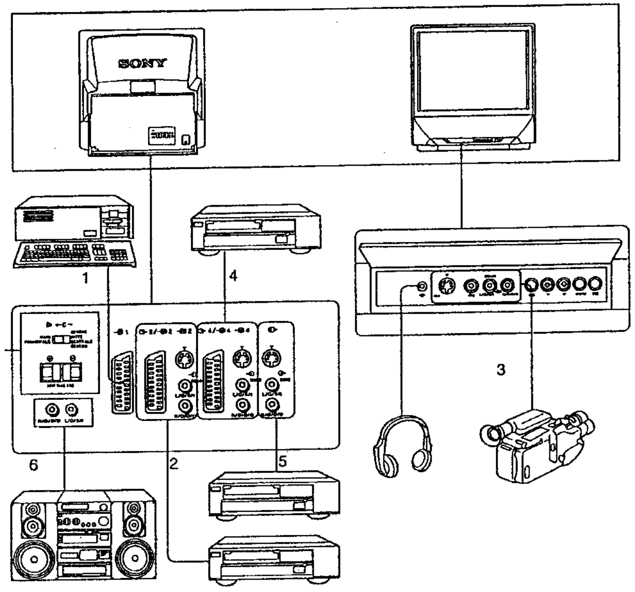
You can connect optional audio-video equipment to this TV such as a VCR, video disc player, and stereo system.

**To connect a VCR using the ⊤ terminal**
Connect the aerial output of the VCR to the aerial terminal ⊤ of the TV.
We recommend that you tune in the video signal to programme number "0." For details see "Preset channels manually" on page 9.

**If the picture or the sound is distorted**
Move the VCR away from the TV.

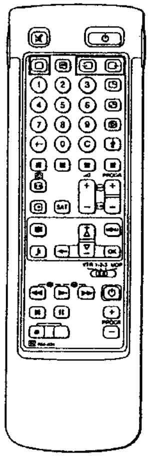
**S/video Input (Y/C Input)**
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals. Separating the Y and C signals prevents them from interfering with one another, and therefore improves picture quality (especially luminance). This TV is equipped with 3 S Video Input jacks through which these separated signals can be input directly.

**When connecting a monaural VCR**
Connect only the white ⊖ jack to both the TV and VCR.



| | Acceptable input signal | Available output signal |
|---|---|---|
| 1 | Normal audio/video and RGB signal | Video/audio from TV tuner |
| 2 | Normal audio/video and S video signal | Video/audio from selected source |
| 3 | Normal audio/video and S video signal | No outputs |
| 4 | Normal audio/video and S video signal | Video/audio displayed on TV screen (monitor out) |
| 5 | No inputs | S/video/audio signal displayed on TV screen (monitor out) |
| 6 | No inputs | Audio signal (variable) |
| 7 | Centre speaker input.<br>Select to CENTRE when TV set's speakers are used for external amplifier (e.g. Dolby amplifier).<br>For normal operation, switch position is MAIN. | No outputs |

**Selecting input with PROGR +/– or number buttons**
You can preset video input sources to the programme positions so that you can select them with PROGR +/– or number buttons. For details, see "Preset channels manually" on page 9.



# Selecting Input and Output

This section explains how to view the video input picture (of the video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

## *Selecting input*

Press ⇥ repeatedly to select the input source.
The symbol of the selected input source will appear. (See Fig. 22.)

**To go back to the normal TV picture**

Press ▢.

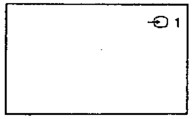


Fig. 22

## *Input modes*

| Symbol | Input signal |
|---|---|
| ⇥ 1 | Audio/video input through the ⇥1 connector |
| ⇥ | Audio/RGB input through the ⇥ 1 connector |
| ⇥ 2 | Audio/video input through the ⊕→ 2/ ⇥Ⓢ 2 connector |
| ⇥Ⓢ 2 | Audio/S video input through the ⊕→ 2/ ⇥Ⓢ 2 or ⇥Ⓢ 2 connector (4-pin connector) |
| ⇥ 3 | Audio/video input through ⇥ 3 and ⇥ 3 on the front |
| ⇥Ⓢ 3 | Audio/S video input through the ⇥Ⓢ 3 (4-pin connector) and ⇥3 connectors |
| ⇥ 4 | Audio/video input through the ⊕→ 4/ ⇥Ⓢ 4 connector |
| ⇥Ⓢ 4 | Audio/S video input through the ⊕→ 4 / ⇥Ⓢ 4 or ⇥Ⓢ 4 connector(4-pin connector) |

You can also select the input mode using the ⇥ button on the TV.

## *Selecting the output*

The ⊕→ 2/⇥Ⓢ 2 connector outputs the source input from the other connectors.

Press ⊕→ repeatedly to select the output.

The symbol of the selected output source appears. (See Fig. 23.)

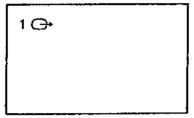
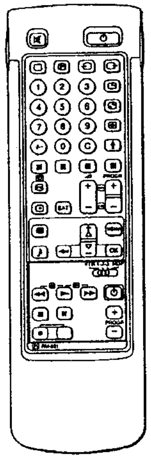


Fig. 23

## *Output modes*

| Symbol | ⊕→ 2/ ⇥Ⓢ 2 connector outputs |
|---|---|
| 1 ⊕→ | Audio/video signal from the ⇥ 1 connector |
| 2 ⊕→ | Audio/video signal from the ⊕→2/ ⇥Ⓢ connector |
| 2 Ⓢ→ | Audio/S video signal from the ⊕→2/ ⇥Ⓢ 2 or ⇥Ⓢ 2 connector (4 pin) |
| 3 ⊕→ | Audio/video signal from the ⇥ 3, ⇥3 connectors |
| 3 Ⓢ→ | Audio/S video signal from the ⇥Ⓢ 3, ⇥ 3 connectors |
| 4 ⊕→ | Audio/video signal from the ⊕→ 4/ ⇥Ⓢ 4 connector |
| 4 Ⓢ→ | Audio/S video signal from the ⊕→ 4/ ⇥Ⓢ 4 or ⇥Ⓢ 4 connector (4 pin) |
| TV⊕→ | Audio/video signal from the ⊤ aerial terminal |



**When recording**
when you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

# Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: beta, 8 mm and VHS VCRs and video disc players.

**Tuning the Remote Commander to the equipment**

1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:

| | |
|---|---|
| VTR1: | Beta VCR |
| VTR2: | 8 mm VCR |
| VTR3: | VHS VCR |
| MDP: | Video disc player |

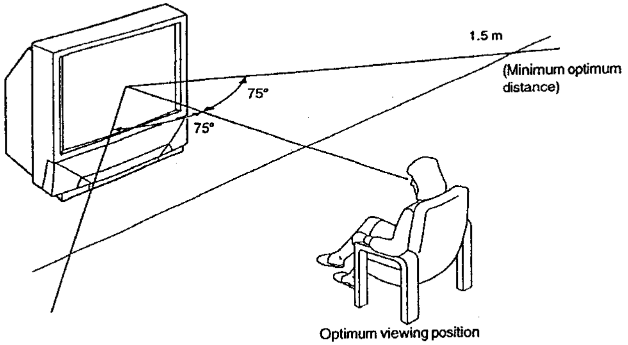
2 Use the buttons indicated in the illustration to operate the additional equipment.
If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.
If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.

# For Your Information

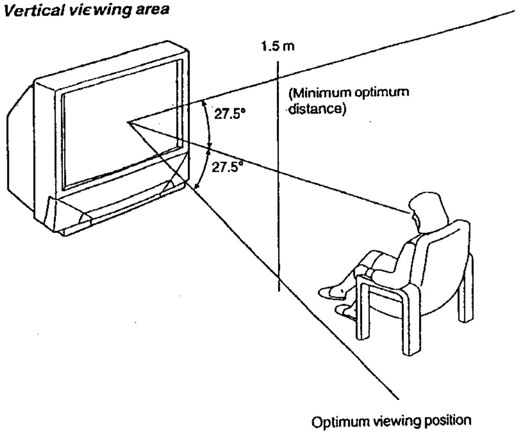
## Optimum Viewing Area

For the best picture quality, try to position the projection TV so that you can view the screen from within the areas shown below.

### *Horizontal viewing area*


1.5 m
(Minimum optimum distance)
75°
75°
Optimum viewing position

### *Vertical viewing area*


1.5 m
(Minimum optimum distance)
27.5°
27.5°
Optimum viewing position

## Troubleshooting

Here are some simple solutions to some problems which may affect the picture and sound.

| Problem | Solution |
|---|---|
| No picture (screen is dark), no sound | • Plug in the TV in.<br>• Press ⏻ on the TV (if ⏻ indicator is on, press ○ or a programme number on the Remote Commander).<br>• Check the aerial connection.<br>• Check if the selected video source is on.<br>• Turn the TV off for three or four seconds and then turn it on again using ⏻. |
| Poor or no picture (screen is dark), but sound is OK | • Press ● to enter the PICTURE ADJUSTMENT menu and adjust the brightness, contrast and colour. |
| The menu and picture disappear (if contrast and brightness are minimum) | • Press MENU on the Remote Commander or on the front panel of the TV set. |
| Good picture but no sound | • Press ⊿ +.<br>• If 🔇 is displayed on the screen, press 🔇.<br>• Check if the switch at the rear of the TV set is selected in MAIN position. |
| No colour for colour programmes | • Press ● to enter the PICTURE ADJUSTMENT menu, select RESET, then press OK. |
| Remote Commander does not function | • The batteries are weak. |

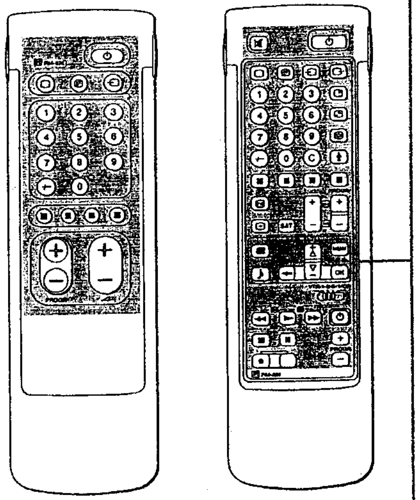
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

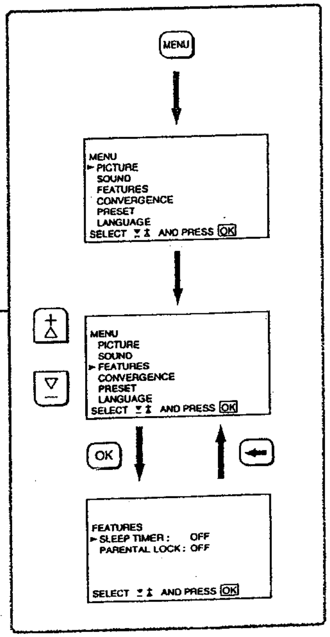
**TV/teletext-operation**
Funcionamiento del TV/Teletexto
Funcionamento do TV/Teletexto
För TV/text-TV-användning
TV/Teleteks kullanımı

**PIP operation**
Funcionamiento de PIP
Funcionamento da função PIP
För BIB-användning
PIP kullanımı

**Menu operation**
Funcionamiento del menú
Funcionamento do menu
För menyanvändning
Menü kullanımı

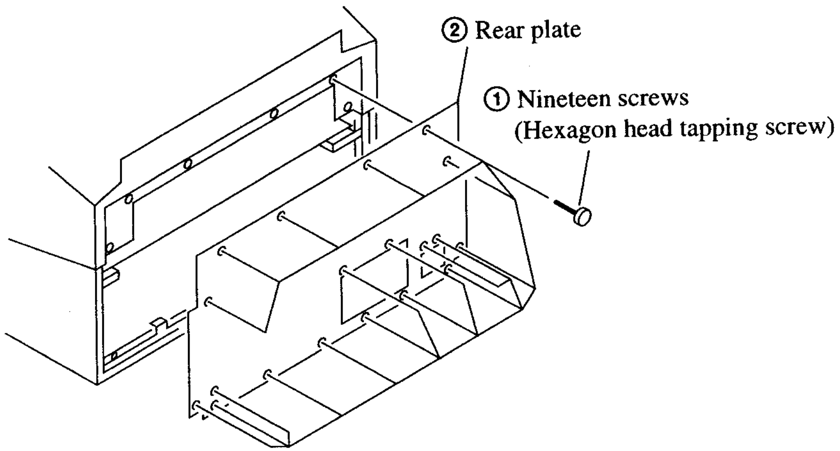
**Video operation**
Funcionamiento del vídeo
Funcionamento do vídeo
För videoanvändning
Video kullanımı



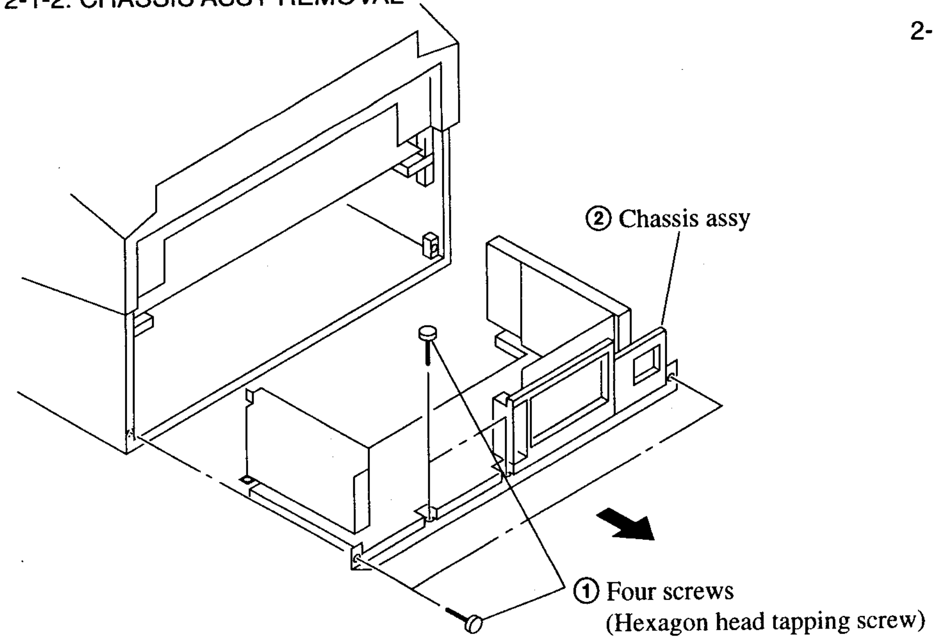

MENU
MENU
► PICTURE
SOUND
FEATURES
CONVERGENCE
PRESET
LANGUAGE
SELECT ▼▲ AND PRESS OK
+ △
▽ –
MENU
PICTURE
SOUND
► FEATURES
CONVERGENCE
PRESET
LANGUAGE
SELECT ▼▲ AND PRESS OK
OK
FEATURES
► SLEEP TIMER : OFF
PARENTAL LOCK : OFF
SELECT ▼▲ AND PRESS OK

# SECTION 2
# DISASSEMBLY

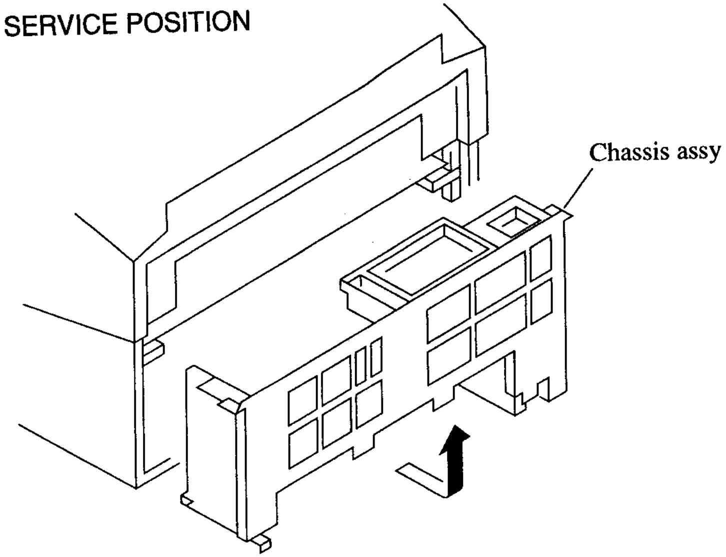
## 2-1-1. REAR PLATE REMOVAL


② Rear plate
① Nineteen screws
(Hexagon head tapping screw)

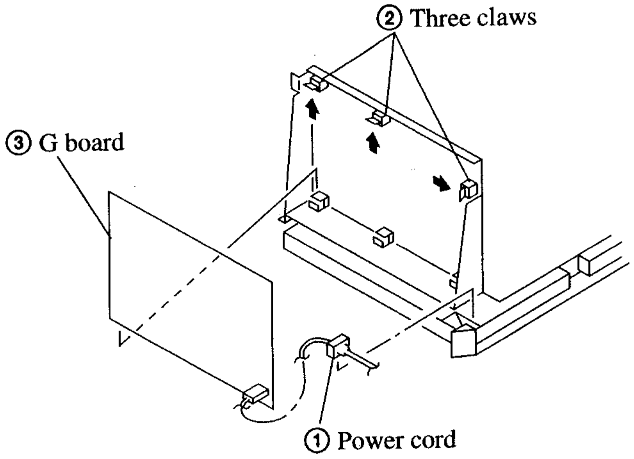
## 2-1-2. CHASSIS ASSY REMOVAL


② Chassis assy
① Four screws
(Hexagon head tapping screw)

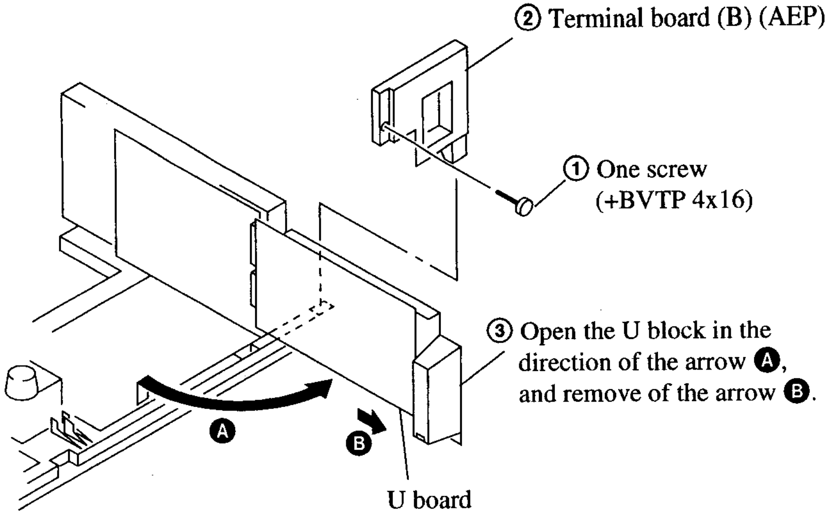
## 2-1-3. SERVICE POSITION


Chassis assy

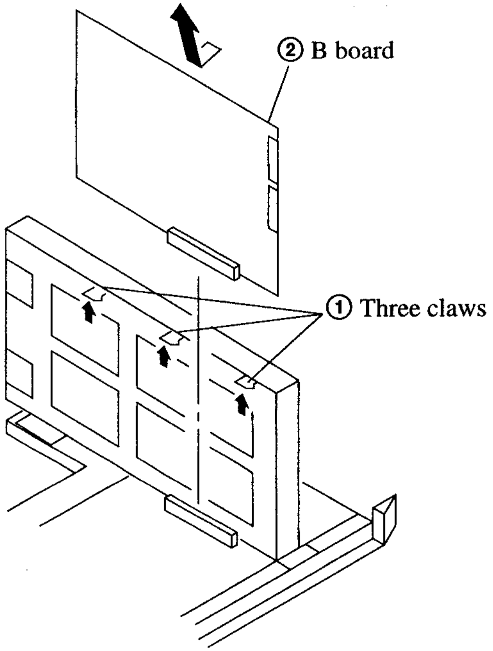
## 2-1-4. G BOARD REMOVAL


② Three claws
③ G board
① Power cord

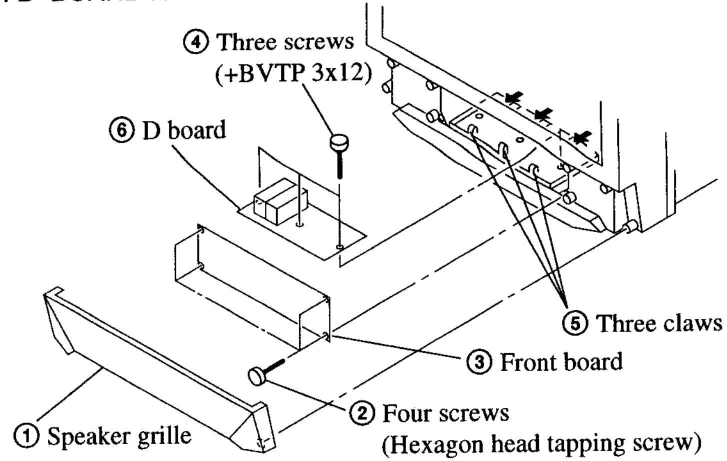
### 2-1-5. U BOARD REMOVAL


② Terminal board (B) (AEP)
① One screw
(+BVTP 4x16)
③ Open the U block in the
direction of the arrow 🅐,
and remove of the arrow 🅑.
🅐
🅑
U board

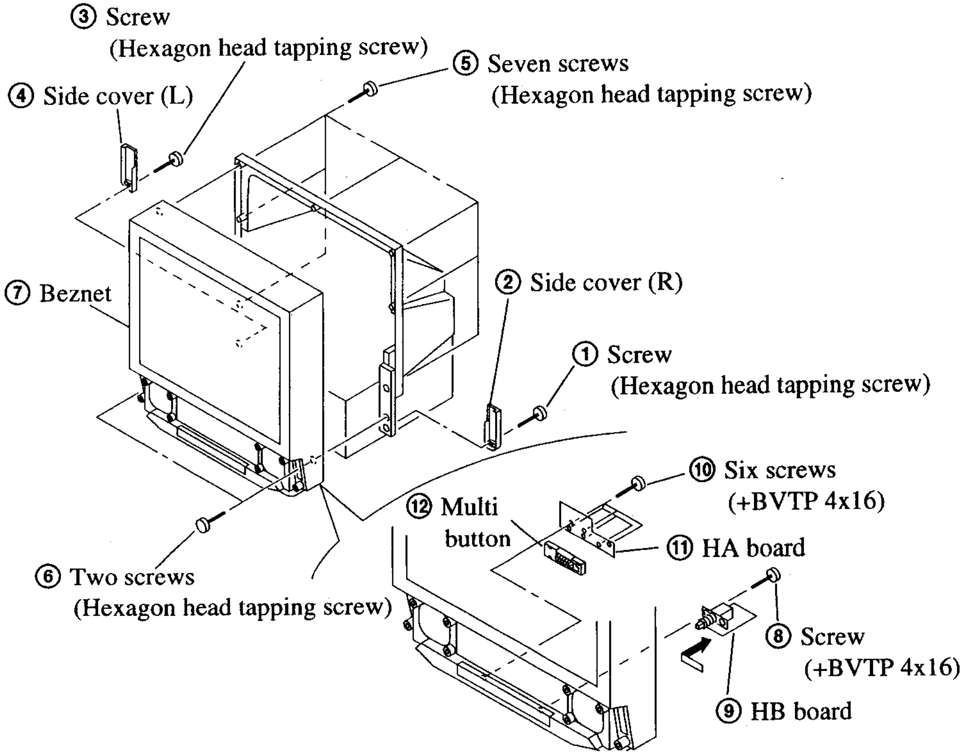
### 2-1-6. B BOARD REMOVAL


② B board
① Three claws

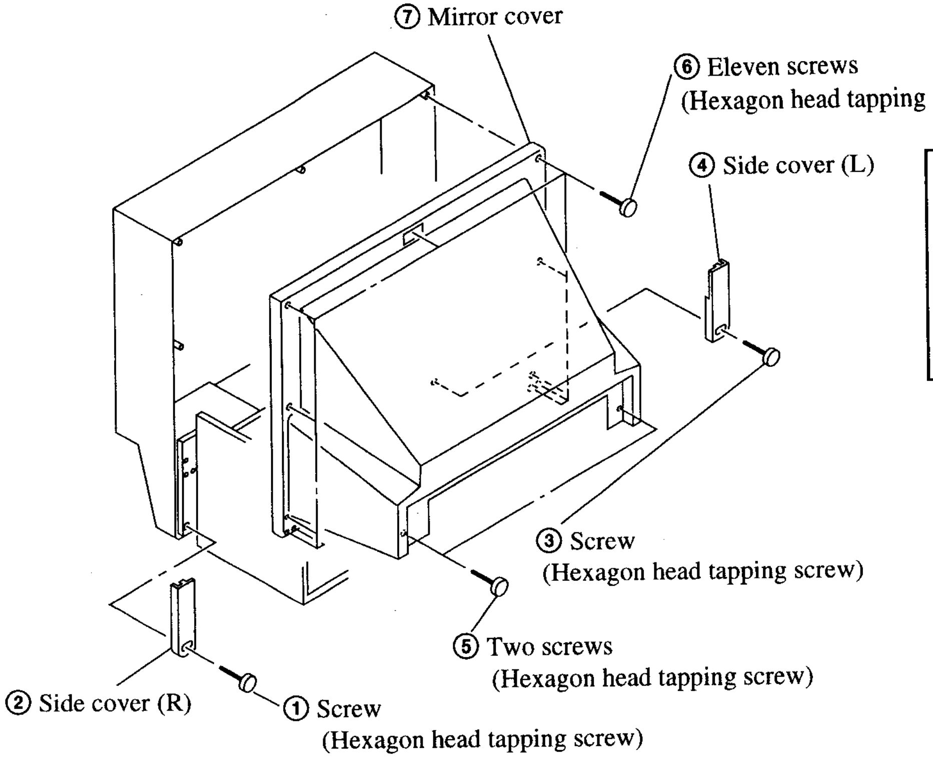
### 2-1-7. D BOARD REMOVAL


④ Three screws
(+BVTP 3x12)
⑥ D board
⑤ Three claws
③ Front board
② Four screws
(Hexagon head tapping screw)
① Speaker grille

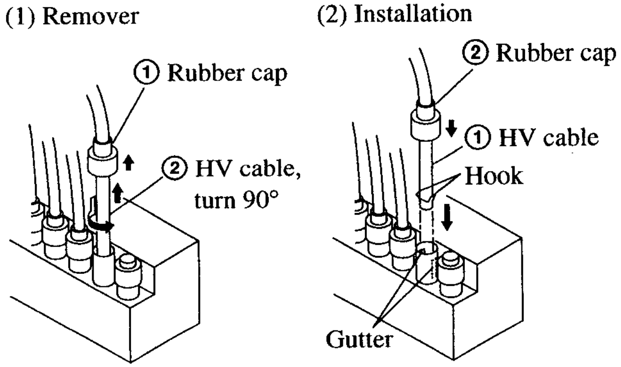
### 2-1-8. BEZNET, HA AND HB BOARDS REMOVAL


③ Screw
(Hexagon head tapping screw)
⑤ Seven screws
(Hexagon head tapping screw)
④ Side cover (L)
⑦ Beznet
② Side cover (R)
① Screw
(Hexagon head tapping screw)
⑩ Six screws
(+BVTP 4x16)
⑫ Multi
button
⑪ HA board
⑥ Two screws
(Hexagon head tapping screw)
⑧ Screw
(+BVTP 4x16)
⑨ HB board

## 2-1-9. MIRROR COVER REMOVAL

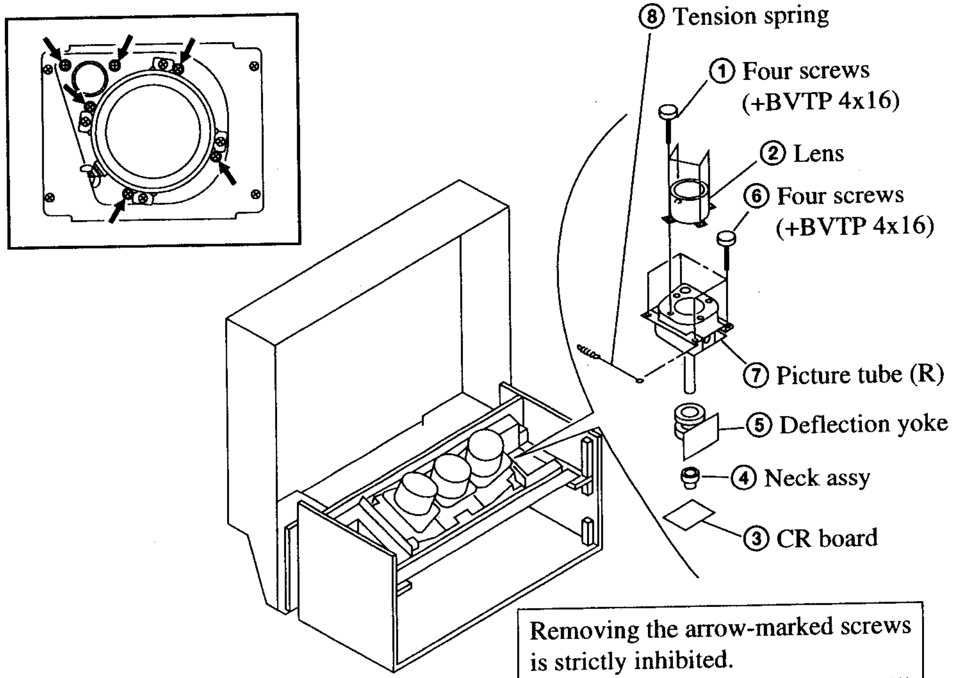

⑦ Mirror cover
⑥ Eleven screws
(Hexagon head tapping
④ Side cover (L)
③ Screw
(Hexagon head tapping screw)
⑤ Two screws
(Hexagon head tapping screw)
② Side cover (R)
① Screw
(Hexagon head tapping screw)

## 2-1-10. HIGH-VOLTAGE CABLE INSTALLATION AND REMOVAL


(1) Remover

(2) Installation
① Rubber cap
② HV cable,
turn 90°
② Rubber cap
① HV cable
Hook
Gutter

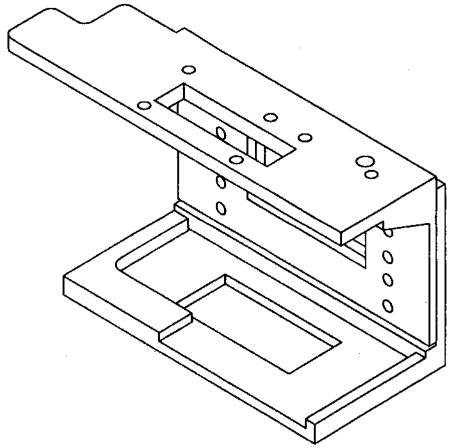
## 2-1-11. PICTURE TUBE REMOVAL


⑧ Tension spring
① Four screws
(+BVTP 4x16)
② Lens
⑥ Four screws
(+BVTP 4x16)
⑦ Picture tube (R)
⑤ Deflection yoke
④ Neck assy
③ CR board

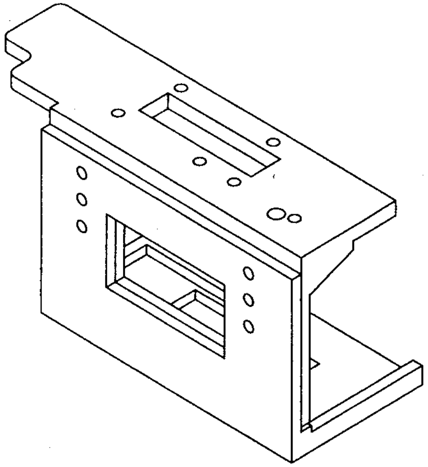
Removing the arrow-marked screws
is strictly inhibited.
If removed, it may cause liquid spill.

## 2-2.SERVICE STAY ASSY HOW TO USE AND CARRY BACK SERVICE STAY ASSY

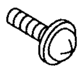
### 2-2-1.SERVICE STAY ASSY (X-4034-033-1)



Service stay (L)



Service stay (R)

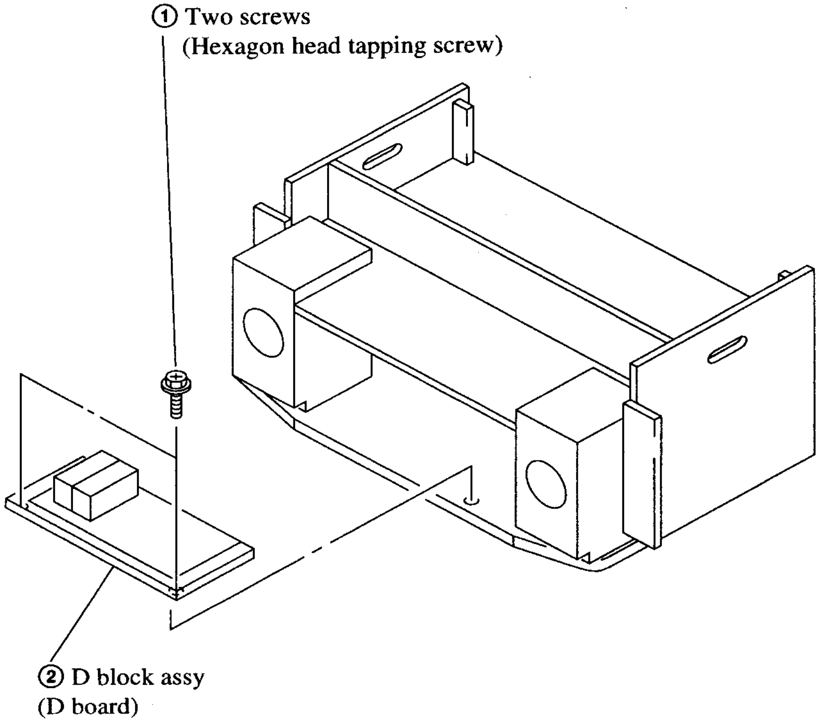


Screw +PSW M4x30
7-682-968-01

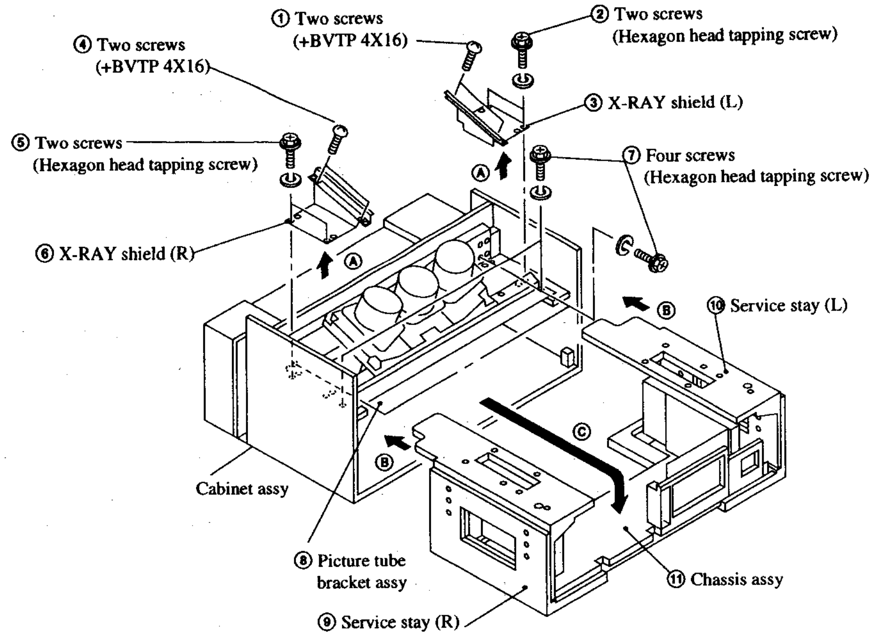
### ● PREPARATION

1) Remove the rear plate and chassis assy while referring to the instructions.
2) Remove the HA and HB boards while referring to the instructions.
3) Remove the mirror cover while referring to the instructions.
4) Remove the harnesses from the purse lock.
5) Remove the connector from the speaker. (U board : CN2006,2007)

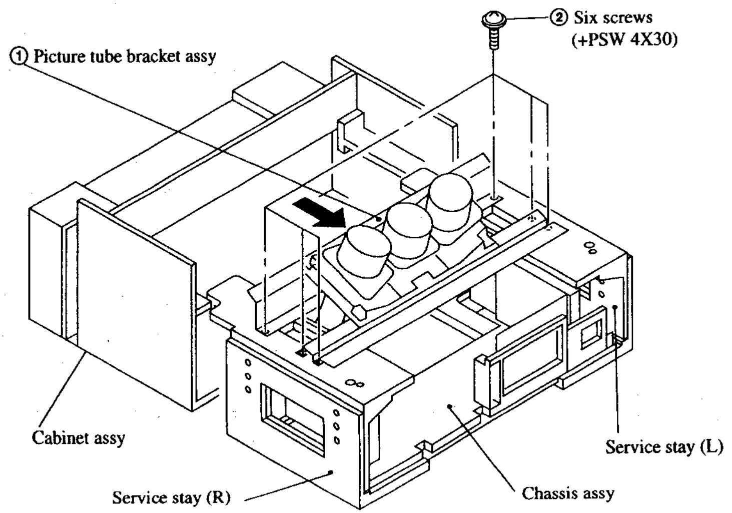
### 2-2-2. D BLOCK ASSY REMOVEL


① Two screws
(Hexagon head tapping screw)
② D block assy
(D board)

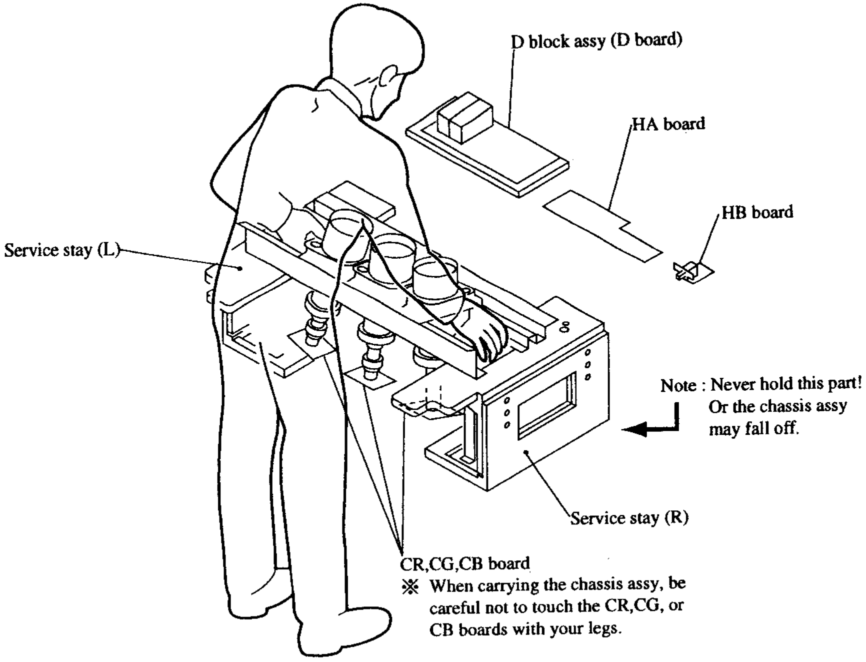
## 2-2-3. PICTURE TUBE BRACKET ASSY REMOVAL AND INSTALL A CHASSIS ASSY


① Two screws
(+BVTP 4X16)
② Two screws
(Hexagon head tapping screw)
④ Two screws
(+BVTP 4X16)
③ X-RAY shield (L)
⑤ Two screws
(Hexagon head tapping screw)
⑦ Four screws
(Hexagon head tapping screw)
Ⓐ
⑥ X-RAY shield (R)
Ⓑ
⑩ Service stay (L)
Ⓒ
Cabinet assy
⑧ Picture tube
bracket assy
⑪ Chassis assy
⑨ Service stay (R)

## 2-2-4. INSTALL A PICTURE TUBE BRACKET ASSY


② Six screws
(+PSW 4X30)
① Picture tube bracket assy
Cabinet assy
Service stay (L)
Service stay (R)
Chassis assy

## 2-2-5. CARRY BACK SERVICE STAY ASSY


D block assy (D board)
HA board
HB board
Service stay (L)
Service stay (R)
CR,CG,CB board

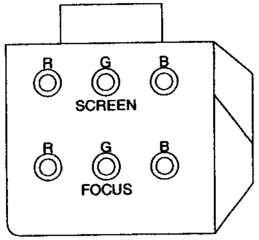
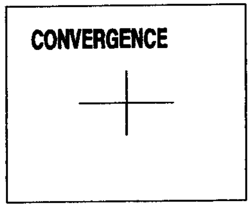
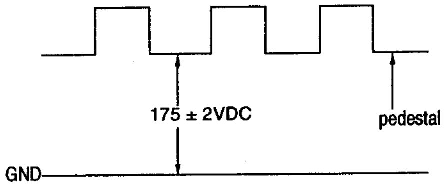
Note : Never hold this part!
Or the chassis assy
may fall off.

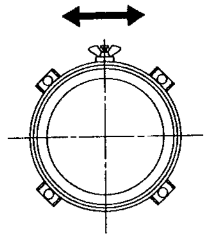
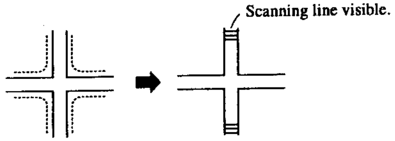
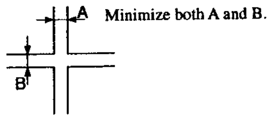
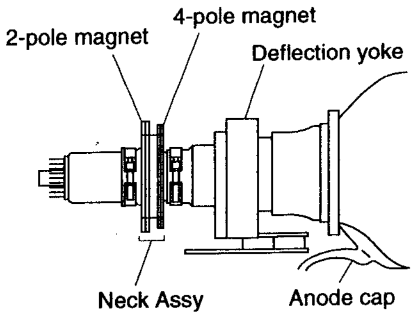
※ When carrying the chassis assy, be careful not to touch the CR,CG, or CB boards with your legs.

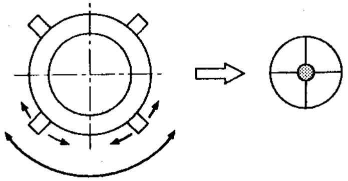
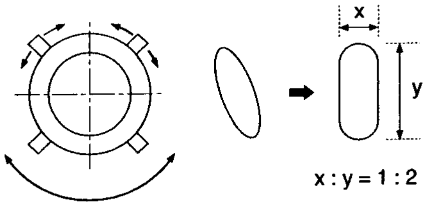
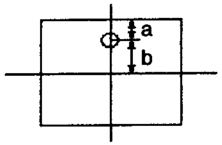
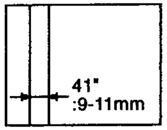
※ Even with 2 servicemen, be sure to put your hands in to the grooves on the top of service stays (L) and (R) to carry the chassis assy.

※ To hold the chassis assy, put your hands into the grooves on the top of Service stays (l) and (R).

# SECTION 3
## SET-UP ADJUSTMENTS

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **SCREEN VOLTAGE ADJUSTMENT (ROUGH ALIGNMENT)**<br>1. Turn the red VR on the FOCUS block all the way to the left and then gradually turn it to the right until the point where you can see the retrace line.<br>2. Next gradually turn it to the left to the position where the retrace line disappears. | Monoscope Pattern | | PICTURE<br>.......... minimum<br>BRIGHTNESS<br>.......... 50%<br>SCREEN (G2) |  <br>FOCUS block |
| **FOCUS LENS ADJUSTMENT**<br>1. Loose the lens screw.<br>2. Set in service mode.<br>3. Use VSP on the service mode menu to shown only the green color.<br>4. Press the Commander Menu button and select FEATURES and CONVERGENCE to display the test signal on the screen.<br>5. Rotate the green lens and align with the optimal focus point from the test signal.<br>6. Use RRH from the service mode menu to set to green and red.<br>7. Output the test signal and rotate the red lens to obtain the optimum focus at the point where the red and green spots overlap.<br>8. Use RBH from the service mode menu to set to red and blue.<br>9. Output the test signal and rotate the blue lens to obtain the optimum focus at the point where the blue and red spots overlap.<br>10. Tighten the lens screw. | | | |  |
| **SCREEN (G2) ADJUSTMENT**<br>1. Select VIDEO mode without signals.<br>2. Connect an oscilloscope to the TP701(KR), TP731(KG) and TP761(KB) of CR board, CG board and CB board.<br>3. Adjust R, G and B screen voltage to 175 ± 2VDC with screen VR on the focusblock. | | | |  |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **FOCUS VR ADJUSTMENT**<br>1. Set in service mode.<br>2. Use VSP on the service mode menu to shown only the green color.<br>3. Press the Commander Menu button (convergence) and output the test signal.<br>4. Rotate the green VR on the FOCUS block and align to obtain the optimal focus point.<br>5. Use RRH from the service mode menu to set to green and red.<br>6. Output the test signal and rotate the red VR to obtain the optimum focus at the point where the red and green spots overlap.<br>7. Use RBH from the service mode menu to set to red and blue.<br>8. Output the test signal and rotate the blue VR aligning to obtain the optimum focus at the point where the blue and green spots overlap. | | | | <br>Lens<br><br> <br><br> |
| **DEFLECTION YOKE TILT ADJUSTMENT**<br>1. Set in service mode.<br>2. Set to receive the monoscope signal.<br>3. Use VSP on the service mode menu to shown only the green color.<br>4. Loosen the deflection yoke setscrew and align the tilt of the Deflection Yoke so that the bars at the center of the monoscope pattern are horizontal.<br>5. After aligning the deflection yoke, fasten it securely to the funnel-shaped portion (neck) of the CRT.<br>6. The tilt of the deflection yoke for red is aligned with RRH on the service mode menu, and the tilt on the deflection yoke for green is aligned with RBH on the service menu, is aligned the same as was done for green. | Monoscope pattern | | | <br> 2-pole magnet<br>4-pole magnet<br>Deflection yoke<br>Neck Assy<br>Anode cap |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **2-POLE MAGNET ADJUSTMENT**<br>1. Set in service mode.<br>2. Set to receive the dot pattern signal.<br>3. Place the caps on the red and blue lens so that only the green color is shown.<br>4. Turn the green VR on the focus block to the right and set to overfocus to enlarge the spot.<br>5. Now align the 2-Pole Magnet so that the enlarged spot is in the center of the Just Focus spot.<br>6. Align the green focus VR and set for just (precise) focus.<br>7. Perform the same alignment for red and blue. | Dot pattern |  | 2-pole magnet | Use the center dot<br> |
| **4-POLE MAGNET ADJUSTMENT**<br>1. Set in service mode.<br>2. Set to receive the dot pattern signal.<br>3. Place the caps on the red and blue lens so that only the green color is shown.<br>4. Turn the green VR on the focus block to the left and set to underfocus to enlarge the spot.<br>5. Now align the 4-Pole Magnet so that the enlarged spot becomes a perfect circle. | Dot pattern |  | 4-pole magnet | Use the center dot<br> <br>x : y = 1 : 2 |
| **DEFOCUS ADJUSTMENT**<br>1. Receive the crosshatch signal.<br>2. Adjust the FOCUS knob so that the crosshatch pattern vertical line width is as in the figure on the right. | Crosshatch pattern |  | FOCUS VR<br>• RED<br>• GREEN<br>• BLUE | • Focus adjustment point<br> <br>a : b=1 : 4<br> <br>without flare |

# ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

Use of Remote Commander (RM-831) can be performed circuit adjustments about this model.

**NOTE : Test Equipment Required.**

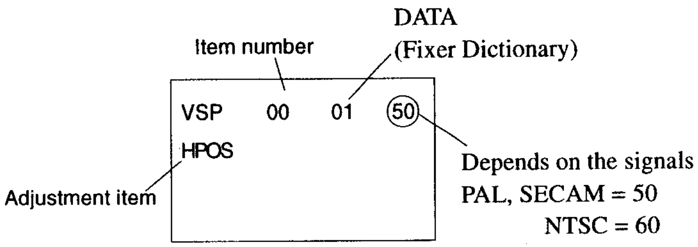
1. Pattern Generator
2. Frequency counter
3. Digital multimeter
4. Audio oscillator

## 1. METHOD OF SETTING THE SERVICE ADJUSTMENT MODE

### SERVICE MODE PROCEDURE

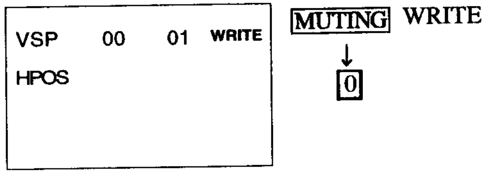
1. Standby mode. (Power off)
2. DISPLAY → 5 → VOL (+) → TV POWER on the Remote Commander.
   ( + → 5 → ⊿ → ☐ ) (Press each button within a second.)

### SERVICE ADJUSTMENT MODE IN



3. The CRT displays the item Being adjusted.
4. Press 1 or 4 on the Remote Commander to select the item.
5. Press 3 or 6 on the Remote Commander to change the data.
6. If you want to recover the latest values press 7 then 0 to read the memory.
7. Press MUTING then 0 to write into memory.

### SERVICE ADJUSTMENT MODE MEMORY



8. Press 5 then 0 on the Remote Commander to initialize.
   (Be sure not to use usually)
9. Turn set off and on to exit.

## 2. AFTER IC204 (NONVOLA MEMORY) REPLACEMENT

1. Enter to Service Mode.
2. Press 5 and 0 of the commander to initialize data.
3. Adjust standard data to call each item number with 3 and 6 of the commander.
   Write the data per each item number ( MUTING + 0 )
4. Select CP2 items menu and respectively set the data with 3 and 6 of the commander.

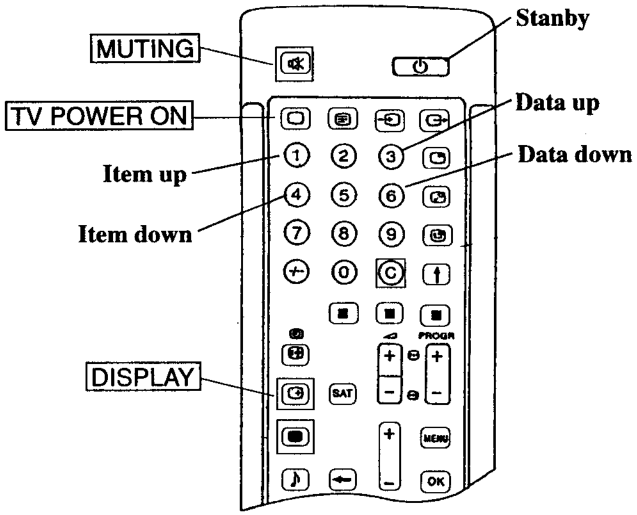
| | Item number | Adjustment item | AEP | UK | K (OIRT) |
|---|---|---|---|---|---|
| CP2 | 03 | B/G | 1 | 1 | 1 |
| | 04 | I | 1 | 1 | 1 |
| | 05 | IRE | 1 | 1 | 1 |
| | 06 | D/K | 1 | 1 | 1 |
| | 07 | AUS | 0 | 0 | 0 |
| | 08 | L | 1 | 1 | 1 |

   Press MUTING + 0 of the commander to write the data.
5. Select item CSET of TXT menu and set the data with 3 and 6 of the commander.

| | | | |
|---|---|---|---|
| TXT | 14 | CSET | 03 : West (AEP) (UK)<br>05 : OIRT (UK) |

   Press MUTING + 0 of the commander to write the data.
6. Press 8 and 0 of the commander to make the user control data standard.

## 3. ADJUST BUTTONS AND INDICATOR



RM-831

## 4. SERVICE MODE LIST

### VSP

| | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| VSP | 00 | HPOS | 0 ~ 63 | 28 | 28 | H-SHIFT | CXD2018Q |
| | 01 | VSIZ | 0 ~ 63 | 15 | 43 | V-SIZE | |
| | 02 | VPOS | 0 ~ 63 | 35 | 15 | V-SHIFT | |
| | 03 | VSCO | 0 ~ 15 | 7 | 3 | S-CORRECTION | |
| | 04 | VLIN | 0 ~ 15 | 8 | 8 | V-LINEARITY | |
| | 05 | HSIZ | 0 ~ 63 | 28 | 23 | H-SIZE | |
| | 06 | HIPN | 0 ~ 63 | 36 | 40 | PIN-AMP | |
| | 07 | HKEY | 0 ~ 31 | 15 | 15 | TILT | |
| | 08 | UPCP | 0 ~ 15 | 7 | 3 | UPPER CORNER PIN | |
| | 09 | LOCP | 0 ~ 15 | 6 | 8 | LOWER CORNER PIN | |
| | 10 | HBOW | 0 ~ 15 | 9 | 8 | V-BOW | |
| | 11 | HSKE | 0 ~ 15 | 8 | 8 | V-ANGLE | |

### DP

| | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| R GH | 00 | CENT | –127 ~ +128 | 0 | 0 | GREEN. H CENTER | CXP85112B-613S |
| | 01 | SKEW | –127 ~ +128 | 0 | 0 | GREEN. H SKEW | |
| | 02 | BOW | –127 ~ +128 | –1 | 0 | GREEN. H BOW | |
| | 03 | 4BOW | –127 ~ +128 | 0 | 0 | GREEN. H 4th BOW | |
| | 04 | SIZE | –127 ~ +128 | 0 | 0 | GREEN. H SIZE | |
| | 05 | LIN | –127 ~ +128 | –20 | 0 | GREEN. H LINEARITY | |
| | 06 | MSIZ | –127 ~ +128 | 16 | 6 | GREEN. H MIDDLE SIZE | |
| | 07 | MLIN | –127 ~ +128 | 6 | 0 | GREEN. H MIDDLE LINEARITY | |
| | 08 | KEY | –127 ~ +128 | 0 | 5 | GREEN. H KEY | |
| | 09 | SSKW | –127 ~ +128 | 14 | 0 | GREEN. H SUB SKEW | |
| | 10 | MPIN | –127 ~ +128 | 47 | 30 | GREEN. H MIDDLE PIN | |
| | 11 | PIN | –127 ~ +128 | 2 | 0 | GREEN. H PIN | |
| | 12 | SBOW | –127 ~ +128 | –16 | –40 | GREEN. H SUB BOW | |
| | 13 | MBOW | –127 ~ +128 | 4 | 8 | GREEN. H MIDDLE BOW | |
| | 14 | 4PIN | –127 ~ +128 | –3 | –5 | GREEN. H 4th PIN | |
| | 15 | 4SBOW | –127 ~ +128 | 0 | –1 | GREEN. H 4th SUB BOW | |
| R GV | 00 | CENT | –127 ~ +128 | –4 | 0 | GREEN. V CENTER | CXP85112B-613S |
| | 01 | SKEW | –127 ~ +128 | 0 | 0 | GREEN. V SKEW | |
| | 02 | BOW | –127 ~ +128 | 16 | 0 | GREEN. V BOW | |
| | 03 | SIZE | –127 ~ +128 | –6 | 0 | GREEN. V SIZE | |
| | 04 | LIN | –127 ~ +128 | 22 | –4 | GREEN. V LINEARITY | |
| | 05 | MSIZ | –127 ~ +128 | –5 | 0 | GREEN. V MIDDLE SIZE | |
| | 06 | MKEY | –127 ~ +128 | –5 | –7 | GREEN. V MIDDLE KEY | |
| | 07 | KEY | –127 ~ +128 | –18 | –7 | GREEN. V KEY | |
| | 08 | SSKW | –127 ~ +128 | 1 | 3 | GREEN. V SUB SKEW | |
| | 09 | MPIN | –127 ~ +128 | –4 | –5 | GREEN. V MIDDLE PIN | |
| | 10 | PIN | –127 ~ +128 | 42 | 16 | GREEN. V PIN | |
| | 11 | SBOW | –127 ~ +128 | 8 | 22 | GREEN. V SUB BOW | |
| | 12 | WAVW | –127 ~ +128 | –1 | –6 | GREEN. V WAVE | |
| | 13 | 4PIN | –127 ~ +128 | 7 | 14 | GREEN. V 4th PIN | |
| R RH | 00 | CENT | –127 ~ +128 | –4 | 25 | RED. H CENTER | CXP85112B-613S |
| | 01 | SKEW | –127 ~ +128 | 0 | 0 | RED. H SKEW | |
| | 02 | BOW | –127 ~ +128 | 6 | 0 | RED. H BOW | |
| | 03 | 4BOW | –127 ~ +128 | –1 | 0 | RED. H 4th BOW | |
| | 04 | SIZE | –127 ~ +128 | –2 | 27 | RED. H SIZE | |
| | 05 | LIN | –127 ~ +128 | 16 | 23 | RED. H LINEARITY | |
| | 06 | MSIZ | –127 ~ +128 | 12 | 0 | RED. H MIDDLE SIZE | |
| | 07 | MLIN | –127 ~ +128 | –9 | –15 | RED. H MIDDLE LINEARTIY | |
| | 08 | KEY | –127 ~ +128 | –8 | 1 | RED. H KEY | |
| | 09 | SSKW | –127 ~ +128 | 4 | 5 | RED. H SUB SKEW | |
| | 10 | MPIN | –127 ~ +128 | 54 | 56 | RED. H MIDDLE PIN | |
| | 11 | PIN | –127 ~ +128 | –1 | 32 | RED. H PIN | |

|  | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| R RH | 12 | SBOW | –127 ~ +128 | 7 | 30 | RED. H SUB BOW |  |
|  | 13 | MBOW | –127 ~ +128 | 21 | 2 | RED. H MID BOW |  |
|  | 14 | 4PIN | –127 ~ +128 | 0 | –3 | RED. H 4th PIN |  |
|  | 15 | 4SBOW | –127 ~ +128 | 0 | –2 | RED. H 4th SUB BOW |  |
| R RV | 00 | CENT | –127 ~ +128 | –43 | 0 | RED. V CENTER | CXP85112B-613S |
|  | 01 | SKEW | –127 ~ +128 | 0 | 0 | RED. V SKEW |  |
|  | 02 | BOW | –127 ~ +128 | 17 | 0 | RED. V BOW |  |
|  | 03 | SIZE | –127 ~ +128 | 0 | 11 | RED. V SIZE |  |
|  | 04 | LIN | –127 ~ +128 | 24 | 3 | RED. V LINEARITY |  |
|  | 05 | MSIZ | –127 ~ +128 | –5 | –1 | RED. V MIDDLE SIZE |  |
|  | 06 | MKEY | –127 ~ +128 | 5 | 7 | RED. V MIDDLE KEY |  |
|  | 07 | KEY | –127 ~ +128 | 5 | 0 | RED. V KEY |  |
|  | 08 | SSKW | –127 ~ +128 | 1 | –4 | RED. V SUB SKEW |  |
|  | 09 | MPIN | –127 ~ +128 | –7 | –15 | RED. V MIDDLE PIN |  |
|  | 10 | PIN | –127 ~ +128 | 9 | 15 | RED. V PIN |  |
|  | 11 | SBOW | –127 ~ +128 | 10 | –30 | RED. V SUB BOW |  |
|  | 12 | WAVW | –127 ~ +128 | 29 | 31 | RED. V WAVE |  |
|  | 13 | 4PIN | –127 ~ +128 | 10 | 5 | RED. V 4th PIN |  |
| R BH | 00 | BSEL | 0 / 1 | 0 | 0 | RESISTRATION µ CON BSEL | CXP85112B-613S |
|  | 01 | CENT | –127~ +128 | –8 | –22 | BLUE. H CENTER |  |
|  | 02 | SKEW | –127 ~ +128 | 0 | 0 | BLUE. H SKEW |  |
|  | 03 | BOW | –127 ~ +128 | –1 | 0 | BLUE. H BOW |  |
|  | 04 | 4BOW | –127 ~ +128 | –3 | 0 | BLUE. H 4th BOW |  |
|  | 05 | SIZE | –127 ~ +128 | –21 | –24 | BLUE. H SIZE |  |
|  | 06 | LIN | –127 ~ +128 | –64 | –30 | BLUE. H LINEARITY |  |
|  | 07 | MSIZ | –127 ~ +128 | 22 | 2 | BLUE. H MID SIZE |  |
|  | 08 | MLIN | –127 ~ +128 | 55 | 30 | BLUE. H MID LINEARTIY |  |
|  | 09 | KEY | –127 ~ +128 | –8 | 3 | BLUE. H KEYSTONE |  |
|  | 10 | SSKW | –127 ~ +128 | 24 | 5 | BLUE. H SUB SKEW |  |
|  | 11 | MPIN | –127 ~ +128 | 34 | 48 | BLUE. H MID PIN |  |
|  | 12 | PIN | –127 ~ +128 | 10 | 23 | BLUE. H PIN |  |
|  | 13 | SBOW | –127 ~ +128 | –34 | –63 | BLUE. H SUB BOW |  |
|  | 14 | MBOW | –127 ~ +128 | –12 | –6 | BLUE. H MID BOW |  |
|  | 15 | 4PIN | –127 ~ +128 | –1 | 6 | BLUE. H 4th PIN |  |
|  | 16 | 4SBOW | –127 ~ +128 | 5 | 3 | BLUE. H 4th SUB BOW |  |
| R BV | 00 | CENT | –127 ~ +128 | –17 | 0 | BLUE. V CENTER | CXP85112B-613S |
|  | 01 | SKEW | –127 ~ +128 | 0 | 0 | BLUE. V SKEW |  |
|  | 02 | BOW | –127 ~ +128 | 13 | 0 | BLUE. V BOW |  |
|  | 03 | SIZE | –127 ~ +128 | –38 | –28 | BLUE. V SIZE |  |
|  | 04 | LIN | –127 ~ +128 | 20 | 5 | BLUE. V LINEARITY |  |
|  | 05 | MSIZ | –127 ~ +128 | –7 | 0 | BLUE. V MIDDLE SIZE |  |
|  | 06 | MKEY | –127 ~ +128 | –21 | –24 | BLUE. V MIDDLE KEY |  |

|  | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| R BV | 07 | KEY | –127 ~ +128 | 67 | 40 | BLUE. V KEY | CXP85112B-613S |
|  | 08 | SSKW | –127 ~ +128 | 4 | 5 | BLUE. V SUB SKEW |  |
|  | 09 | MPIN | –127 ~ +128 | –7 | 7 | BLUE. V MIDDLE PIN |  |
|  | 10 | PIN | –127 ~ +128 | –29 | –40 | BLUE. V PIN |  |
|  | 11 | SBOW | –127 ~ +128 | 10 | –23 | BLUE. V SUB BOW |  |
|  | 12 | WAVW | –127 ~ +128 | –40 | –43 | BLUE. V WAVE |  |
|  | 13 | 4PIN | –127 ~ +128 | 15 | 12 | BLUE. V 4th PIN |  |

## D/A

|  | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| D/A | 00 | BKU | 0 ~ 63 | 63 | 63 | V.BLANKING UP | CXA1315P/M |
|  | 01 | BKD | 0 ~ 63 | 0 | 0 | V.BLANKING DOWN |  |

## MCD

|  | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| MCD | 00 | MHUE | 0 ~ 31 | 17 | 15 | SUB HUE OF MAIN PICTURE | TDA9141 |
|  | 01 | YDLY | 0 ~ 15 | 1 | 1 | Y DELAY | TDA9143 |

## SCD

|  | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| SCD | 00 | SHUE | 0 ~ 31 | 13 | 15 | SUB HUE OF SUB PICTURE | TDA9160 |

## RGB

|  | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| RGB | 00 | SCOL | 0 ~15 | 11 | 4 | SUB COLOR | TDA4780 |
|  | 01 | SBRT | 0 ~ 63 | 27 | 31 | SUB BRIGHTNESS |  |
|  | 02 | RAMP | 0 ~ 63 | 32 | 31 | RED GAIN |  |
|  | 03 | GAMP | 0 ~ 63 | 36 | 31 | GREEN GAIN |  |
|  | 04 | BAMP | 0 ~ 63 | 15 | 31 | BLUE GAIN |  |
|  | 05 | RCUT | 0 ~ 63 | 32 | 31 | RED LEVEL REFERENCE |  |
|  | 06 | GCUT | 0 ~ 63 | 42 | 31 | GREEN LEVEL REFERENCE |  |
|  | 07 | BCUT | 0 ~ 63 | 18 | 31 | BLUE LEVEL REFERENCE |  |
|  | 08 | PDL | 0 ~ 63 | 20 | 31 | PEAK DRIVE LIMIT |  |
|  | 09 | GNMA | 0 ~ 63 | 40 | 0 | GAMMA |  |
|  | 10 | ADBL | 0 / 1 | 0 | 0 | ADAPTIVE BLACK |  |
|  | 11 | RELC | 0 / 1 | 1 | 1 | RELATIVE TO CUT-OFF |  |
|  | 12 | TCPL | 0 / 1 | 1 | 1 | TIME CONSTANT PEAK DRIVE LIMITER |  |

## PIP

| | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| PIP | 00 | RDV | 0 ~ 15 | 8 | 8 | V READ DELAY | SDA9188-3X |
| | 01 | RDH | 0 ~ 63 | 16 | 16 | H READ DELAY | |
| | 02 | FRY | 0 ~ 15 | 3 | 3 | BRIGHTNESS OF THE BORDER FRAME | |
| | 03 | 9V50 | 0 ~ 7 | 3 | 3 | MULTI P IN P V 50Hz | |
| | 04 | 9H50 | 0 ~ 7 | 2 | 2 | MULTI P IN P H 50Hz | |
| | 05 | 9V60 | 0 ~ 7 | 2 | 2 | MULTI P IN P V 60Hz | |
| | 06 | 9H60 | 0 ~ 7 | 3 | 3 | MULTI P IN P H 60Hz | |
| | 07 | SCON | 0 ~ 15 | 15 | 8 | CONTRAST D/A CONVERTER | |

## IPQ

| | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| IPQ | 00 | CIN | 0 / 1 | 0 | 0 | CINE MODE (ABAB RASTER) OFF/ON | |
| | 01 | 107 | 0 / 1 | 1 | 1 | MEMORY CONFIGURATION TMS4C1070 SWITCH | |
| | 02 | LFR | 0 / 1 | 1 | 1 | LINE FLICKER REDUCTION MODE OFF/ON | |
| | 03 | HWE | 0 ~ 15 | 15 | 15 | HWE 1 FINE DEALY OFF SET TO DEFAULT | |
| | 04 | NR | 0 ~ 3 | 2 | 2 | NOISE REDUCTION | |
| | 05 | Y-V | 0 ~ 255 | 60 | 60 | Y-VALUE (BRIGHTNESS) | |
| | 06 | UV-V | 0 ~ 255 | 0 | 0 | UV-VALUE (COLOR) | |
| | 07 | PEAK | 0 ~ 127 | 10 | 10 | PEAKING | |
| | 08 | CTI | 0 ~ 127 | 64 | 64 | CTI LEVEL DATA | |
| | 09 | VWE | 0 ~ 63 | 31 | 31 | VWE1 DELAY | |

## TXT

| | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| TXT | 00 | TXH | 0 ~ 255 | 5 | 9 | H START POSITION | TPU3040 |
| | 01 | TXV | 0 ~ 63 | 44 | 44 | V START POSITION | |
| | 02 | VSP | 0 ~ 255 | 59 | 59 | V STOP POSITION | |
| | 03 | BSP | 0 ~ 255 | 61 | 61 | BLANKING STOP | |
| | 04 | BST | 0 ~ 255 | 53 | 53 | BLANKING START | |
| | 05 | SF | 0 ~ 31 | 1 | 1 | ACQUSITION SOFT SLICER | |
| | 06 | A7F | 0 ~ 255 | 10 | 10 | VALUE OF ADRESS 007FH | |
| | 07 | QDT | 0 ~ 63 | 13 | 13 | ACQUSITION DATA SLICER | |
| | 08 | CST | 0 ~ 255 | 0 | 0 | CLAMPING START | |
| | 09 | CSP | 0 ~ 255 | 80 | 80 | CLAMPING STOP | |
| | 10 | LMT | 0 / 1 | 0 | 0 | LIMIT SLICER ADAPTION SWITCH | |
| | 11 | GMX | 0 ~ 255 | 31 | 31 | GAIN MAX | |
| | 12 | FMX | 0 ~ 255 | 32 | 31 | FILTER MAX | |
| | 13 | TVER | 0 ~ 3 | 3 | 3 | TPU VERSION (TC20=3) | |
| | 14 | CSET | 0 ~ 7 | 3 | 3 | 1 : EAST, 3 : WEST (AEP, UK),<br>5 : RUSSIAN (K) | |

## AP

| | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| AP | 00 | FAW | 0 ~ 255 | 8 | 10 | NICAM FAW THRESHOLD | MSP3410 |
| | 01 | CTM | 0 ~ 255 | 8 | 4 | NICAM ERROR BIT THRESHOLD (MONO->NICAM) | |
| | 02 | CTN | 0 ~ 255 | 80 | 80 | NICAM ERROR BIT THRESHOLD (NICAM->MONO) | |
| | 03 | WGO | 0 ~ 255 | 10 | 10 | WEST GERMAN STEREO LOW THRESHOLD | |
| | 04 | WGS | 0 ~ 255 | 21 | 21 | WEST GERMAN STEREO HIGH THRESHOLD | |
| | 05 | WGT | 0 ~ 255 | 80 | 80 | WEST GERMAN STEREO LOW 2 THRESHOLD | |
| | 06 | WGB | 0 ~ 255 | 234 | 250 | WEST GERMAN STEREO HIGH 2 THRESH | |
| | 07 | ACG | 0 / 1 | 1 | 1 | AGC AUTO / CONSTANT SWITCH | |
| | 08 | CDB | 0 ~ 63 | 50 | 30 | AGC GAIN VALUE AT CONSTANT MODE | |
| | 09 | FMP | 0 ~ 127 | 26 | 26 | FM MONO PRESCALE | |
| | 10 | WGP | 0 ~ 127 | 26 | 26 | WEST GERMAN STEREO PRESCALE | |
| | 11 | INIP | 0 ~ 127 | 127 | 127 | I NICAM PRESCALE | |
| | 12 | BNIP | 0 ~ 127 | 72 | 72 | B/G NICAM PRESCALE | |
| | 13 | LNIP | 0 ~ 127 | 81 | 81 | L NICAM PRESCALE | |
| | 14 | CRM | 0 / 1 | 0 | 0 | CARRIER MUTE FUNCTION | |
| | 15 | ACO | 0 / 1 | 1 | 1 | AUDIO CLOCK OUT OFF/ON | |
| | 16 | WAC | 0 ~ 15 | 1 | 1 | WEST GERMAN STEREO JUDGE CONSTANT | |

## CPU

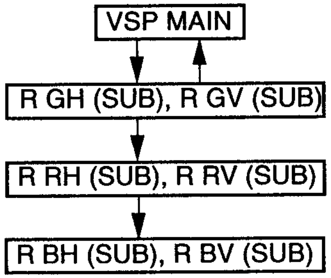
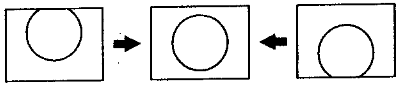
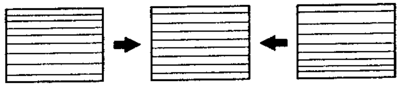
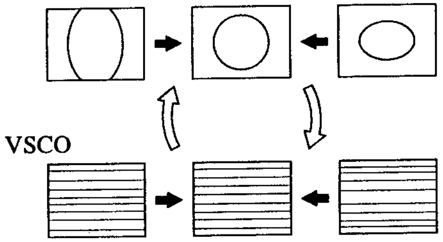
| | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| CPU | 00 | OSH | 0 ~ 63 | 11 | 18 | OSD H POSITION | CXP5400 |
| | 01 | ODL | 0 ~ 256 | 15 | 15 | POWER ON DELAY | |

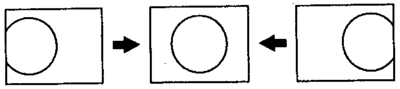
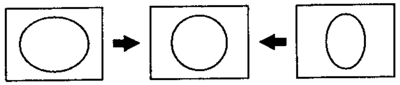
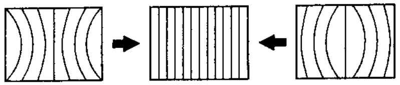
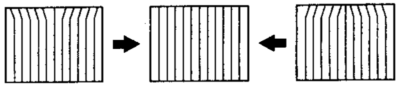
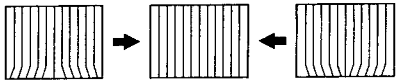
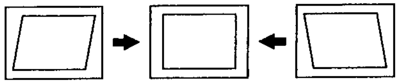
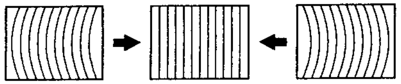
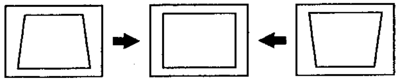
## CP2

| | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| CP2 | 00 | FTZP | 0 / 1 | 1 | 1 | FTZ MUTE PRIORITY | CXP5400 |
| | 01 | RGBP | 0 / 1 | 1 | 1 | RGB MODE PRIORITY | |
| | 02 | NICP | 0 / 1 | 1 | 1 | NICAM PRIORITY | |
| | 03 | B/G | 0 / 1 | 1 | 1 | TV SYSTEM B/G OFF/ON | |
| | 04 | I | 0 / 1 | 1 | 1 | TV SYSTEM I OFF/ON | |
| | 05 | IRE | 0 / 1 | 1 | 0 | TV SYSTEM IRE OFF/ON | |
| | 06 | D/K | 0 / 1 | 1 | 1 | TV SYSTEM D/K OFF/ON | |
| | 07 | AUS | 0 / 1 | 0 | 0 | TV SYSTEM AUS OFF/ON | |
| | 08 | L | 0 / 1 | 1 | 1 | TV SYSTEM L OFF/ON | |
| | 09 | MYC 2 | 0 / 1 | 0 | 0 | YC2/AV2 PRIORITY | |
| | 10 | MYC 4 | 0 / 1 | 0 | 0 | YC4/AV4 PRIORITY | |

## IP 2

| | Item number | Adjustment item | Data range | Standard data | Initial data | Note | Device |
|---|---|---|---|---|---|---|---|
| IP2 | 00 | BOX | 0 / 1 | 0 | 0 | BOX FUNCTION SWITCH | TDA9160 |
| | 01 | SCF | 0 ~ 3 | 0 | 0 | SCREEN FADE FUNCTION | |
| | 02 | SPS | 0 ~ 3 | 0 | 0 | SPLIT SCREEN FUNCTION | |
| | 03 | PHAS | 0 / 1 | 0 | 0 | PHASE FLAG | |
| | 04 | AXIS | 0 / 1 | 1 | 1 | RGB AXIS | |
| | 05 | HSFT | 0 ~ 31 | 10 | 5 | H.SHIFT VALUE | |
| | 06 | SFTE | 0 / 1 | 0 | 0 | SHIFT ENABLE | |
| | 07 | SFTF | 0 / 1 | 0 | 0 | SHIFT CHECK FACTORY | |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **CONVERGENCE ADJUSTMENT**<br>●When replacing the deflection yoke, always perform "DEFLECTION YOKE TILT ADJUSTMENT" before adjusting the convergence.<br>Adjustment procedure<br> VSP MAIN<br>R GH (SUB), R GV (SUB)<br>R RH (SUB), R RV (SUB)<br>R BH (SUB), R BV (SUB) | | | | |
| **• GREEN REGISTRATION ADJUSTMENT**<br>• V-SHIFT adjustment | Monoscope pattern or Crosshatch pattern | | <VSP MENU><br>VSP VPOS | VPOS<br> |
| • V-LINEARITY adjustment | | | VSP VLIN | VLIN<br> |
| • V-SIZE, V-CORRECTION adjustment<br>While tracking, adjust so that the lattice intervals for VSIZ and VSCO are equal. | | | VSP VSIZ<br>VSP VSCO | VSIZ<br> |

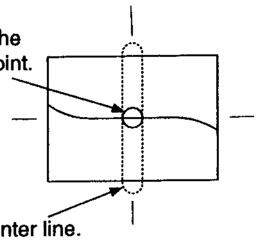
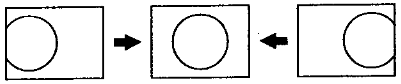
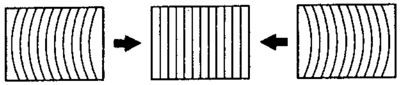
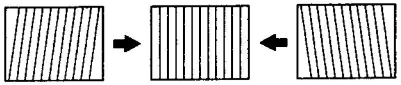
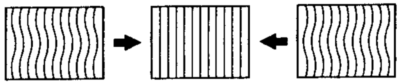
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| • H-SHIFT adjustment | | | VSP HPOS | HPOS  |
| • H-SIZE adjustment<br>Finely adjust with SUB MSIZE. | | | VSP HSIZ | HSIZ  |
| • PIN-AMP adjustment<br>Finely adjust with SUB MPIN. | | | VSP HPIN | HPIN  |
| • UPPER/LOWER-CORNER PIN adjustment<br>Correct the screen top and bottom section line bow. However, if this adjustment is overdone, distortion may occur with the PIN-AMP adjustment that can not be adjusted away.<br>Note : The PIN-AMP adjustment adjusts the overall screen from top to bottom, but the UPPER/LOWER-CORNER PIN adjustments have just large movement in the top and bottom sections, so be careful. | | | VSP UPCP<br>VSP LOCP | UPCP <br>LOCP  |
| • V-ANGLE, V-BOW adjustment<br>Correct the tilt and bow of the vertical line at the center of the screen. | | | VSP HSKE<br>VSP HBOW | HSKE <br>HBOW  |
| • TILT adjustment<br>Adjust to eliminate the tilt of one of the two vertical lines at both ends of the screen. | | | VSP HKEY | HKEY  |

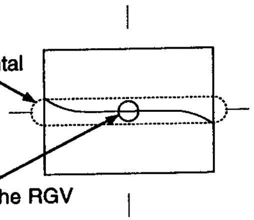
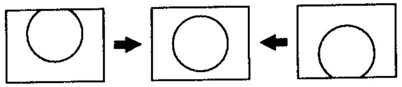
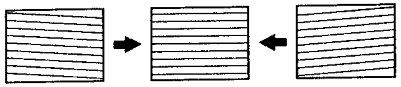
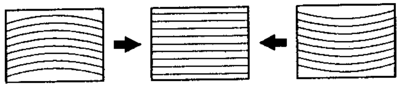
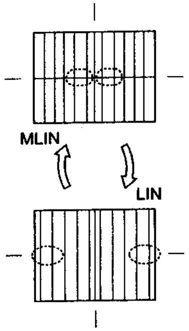
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|

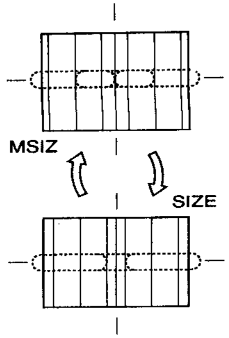
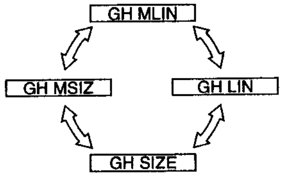
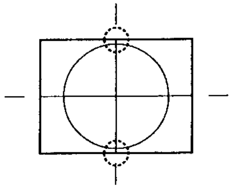
## CONVERGENCE SUB ADJUSTMENT

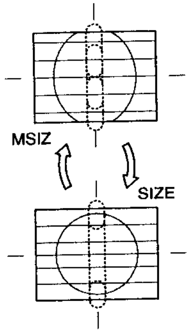
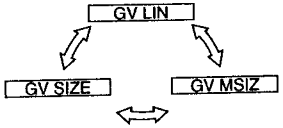
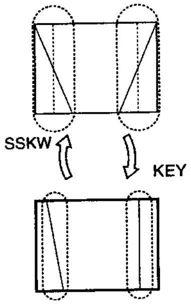
Adjustment O : Yes – : No

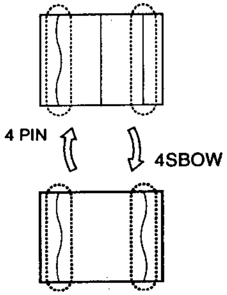
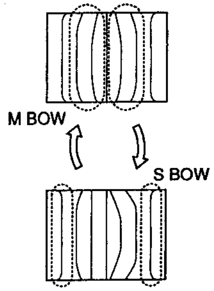
| Display | Adjustment item | Adjustment type | | | | | |
|---|---|---|---|---|---|---|---|
| | | RGH | RGV | RRH | RRV | RBH | RBV |
| BSEL | COL SELECT | – | – | – | – | O | – |
| CENT | CENT | O | O | O | O | O | O |
| SKEW | SKEW | O | O | O | O | O | O |
| BOW | BOW | O | O | O | O | O | O |
| 4BOW | 4TH BOW | O | – | O | – | O | – |
| SIZE | SIZE | O | O | O | O | O | O |
| LIN | LIN | O | O | O | O | O | O |
| MSIZ | MID SIZE | O | O | O | O | O | O |
| MLIN | MID LIN | O | O | O | – | O | – |
| MKEY | MID KEY | – | O | – | O | – | O |
| KEY | KEY | O | O | O | O | O | O |
| SSKW | SUB SKEW | O | O | O | O | O | O |
| MPIN | MID PIN | O | O | O | O | O | O |
| PIN | PIN | O | O | O | O | O | O |
| SBOW | SUB BOW | O | O | O | O | O | O |
| WAVE | WAVE | – | O | – | O | – | O |
| MBOW | MID BOW | O | – | O | – | O | – |
| 4PIN | 4TH PIN | O | O | O | O | O | O |
| 4SBOW | 4TH SUB BOW | O | – | O | – | O | – |

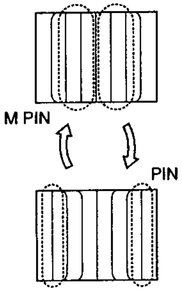
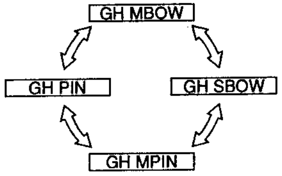
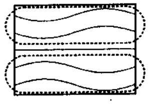
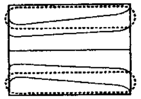
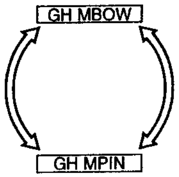
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **• GREEN SUB ADJUSTMENT**<br>**SCREEN CENTER SECTION GREEN VERTICAL LINE**<br>**ADJUSTMENT**<br>1. Finely adjust with RGH CENT, RGH BOW, RGH SKEW. Adjust watching out for the RGH CENT screen center section. | | | <RGH MENU><br>RGH CENT<br>RGH BOW<br>RGH SKEW | Watch out only for the GH CENT center point.<br><br>Watch the vertical center line.<br>RGH CENT<br><br>RGH BOW<br><br>RGH SKEW<br> |
| 2. RGH 4TH BOW adjustment<br>Correct the corner distortion that could not be adjusted away with the RGH BOW adjustment. | | | RGH 4BOW | RGH 4BOW<br> |

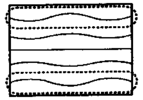
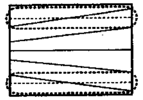
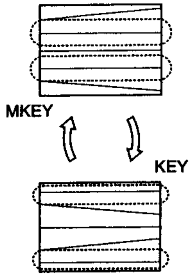
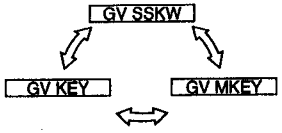
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **SCREEN CENTER SECTION GREEN HORIZONTAL LINE ADJUSTMENT** | | | <RGV MENU> | |
| 1. Finely adjust the center position of the vertical line at the center of the screen with RGV CENT. | | | RGV CENT | <br>Watch the horizontal center line.<br>Watch out only for the RGV CENT center point.<br>RGV CENT<br> |
| 2. Correct the tilt and bow of the horizontal line at the center of the screen with RGV SKEW and RGV BOW. | | | RGV SKEW<br>RGV BOW | RGV SKEW<br><br>RGV BOW<br> |
| **GREEN SIZE AND LINEARITY ADJUSTMENT** | | | <RGH MENU> | |
| 1. Balance the sizes at both sides of the center section of the screen with RGH MLIN.<br>2. Balance the sizes on both end sections of the screen with RGH LIN.<br>3. While tracking, adjust with RGH MLIN and RGH LIN so that the sizes of the horizontal line at the center of the screen are symmetrical left and right. | | | RGH MLIN<br>RGH LIN |  |

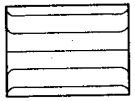
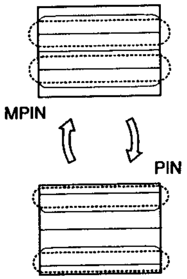
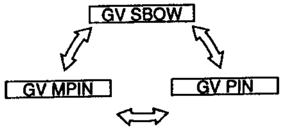
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **GREEN HORIZONTAL SIZE ADJUSTMENT**<br>1. Adjust with RGH MSIZE so that the sizes of both edges and of both sides of the center section of the screen are equal.<br>2. Adjust with RGH SIZE so that the horizontal sizes of both edges and of both sides of the center section of the screen are equal.<br>3. While tracking, adjust with RGH MSIZ and RGH SIZE so that the lattice intervals for the horizontal line section of the center section of the screen are equal and so that the horizontal size is the prescribed value.<br>4. If M LIN is changed when the RGH MSIZ and RGH SIZE adjustment is complete, adjust again while tracking.<br>●With just the H SIZE adjustment in MAIN, if there is no need to adjust RGH SIZE in SUB this can save power. | | | <RGH MENU><br>RGH MSIZ<br>RGH SIZE |  <br> |
| **GREEN VERTICAL LINEARITY ADJUSTMENT**<br>1. Adjust RGV LIN so that the vertical lines at the top and bottom of the screen are symmetrical. | | | <RGV MENU><br>RGV LIN |  |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **GREEN VERTICAL SIZE ADJUSTMENT**<br>1. Adjust with RGV MSIZE so that the sizes for the top and bottom sections of the screen and for both sides of the center section of the screen are equal.<br>2. Set the vertical size to the prescribed value with RGV SIZE.<br>3. Adjust RGV MSIZ and RGV SIZE watching the vertical line at the center section of the screen.<br>4. While tracking, adjust with RGV MSIZ and RGV SIZE so that the lattice intervals for the vertical line section of the center section of the screen are equal and so that the vertical size is the regulation value.<br>5. If RGV LIN is out of place when the RGV MSIZ and RGV SIZE adjustment is complete, adjust again while tracking.<br>●If there is no need to adjust RGV SIZE in SUB with just the V SIZE adjustment in MAIN, this can save power. | | | <RGV MENU><br>RGV MSIZ<br>RGV SIZE |  <br> |
| **GREEN HORIZONTAL TRAPEZOIDAL DISTORTION ADJUSTMENT**<br>1. Adjust with RGH SSKW so that the tilt of the vertical lines at both edges of the screen is symmetrical left and right.<br>2. Adjust with RGH KEY so that there is no tilt in the vertical lines at both edges of the screen.<br>3. If there is a tilt on either the left or right after the RGH KEY adjustment, adjust while tracking. | | | <RGV MENU><br>RGH SSKW<br>RGH KEY |  |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **GREEN HORIZONTAL QUATERNARY ADJUSTMENT**<br>1. Correct the quaternary distortion with RGH 4PIN.<br>2. While balancing, correct the quaternary distortion of both end sections of the screen with RGH 4SBOW.<br>3. While tracking, adjust with RGH 4PIN and RGH 4SBOW. | | | <RGH MENU><br>RGH 4PIN<br>RGH 4SBOW |  |
| **GREEN HORIZONTAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT**<br>1. Adjust with RGH MBOW so that the pin asymmetry at both sides of the center section of screen is symmetrical.<br>2. Adjust with RGH SBOW so that the bow at both end sections of the screen is symmetrical left and right.<br>3. While tracking, adjust with RGH MBOW and RGH SBOW so that the bow of vertical lines on the entire screen is symmetrical left and right. | | | <RGH MENU><br>RGH MBOW<br>RGH SBOW |  |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **GREEN HORIZONTAL SYMMETRICAL PIN DISTORTION ADJUSTMENT**<br>1. Adjust the pin distortion at both sides of the center section of the screen with RGH MPIN.<br>2. Adjust the pin distortion at both end sections of the screen with RGH PIN.<br>3. While tracking, adjust with RGH MPIN and RGH PIN so that the PIN of vertical lines on the entire screen have no bowing.<br>4. If there is asymmetrical pin distortion after the RGH MPIN and RGH PIN adjustments, adjust with RGH MBOW and RGH SBOW while tracking.<br>●With just the PIN AMP adjustment in MAIN, if there is no need to adjust RGV PIN in SUB, this can save power. | | | <RGH MENU><br>RGH MPIN<br>RGH PIN<br>RGH MBOW<br>RGH SBOW |  <br> |
| **GREEN VERTICAL WAVE (TERTIARY DISTORTION) ADJUSTMENT**<br>1. Take the screen top and bottom horizontal lines with RGV WAVE and find the secondary and quaternary waveform.<br>2. There is KEY distortion after the RGV WAVE adjustment, so adjust with GV WAVE and RGV KEY while tracking. | | | <RGV MENU><br>RGV WAVE<br>RGV KEY | RGV WAVE<br><br>RGV KEY<br><br> |

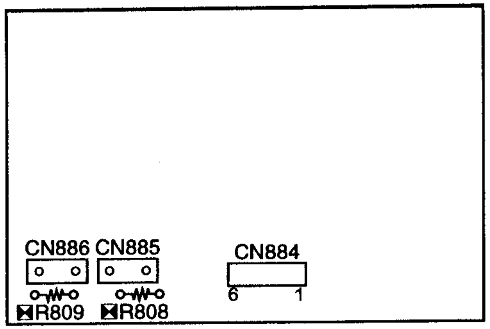
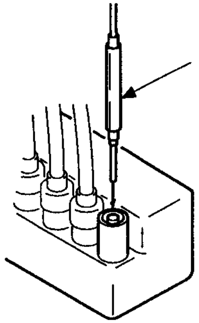
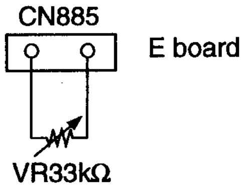
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **GREEN VERTICAL QUATERNARY DISTORTION ADJUSTMENT** | | | <RGV MENU> | |
| 1. Correct the quaternary distortion of the horizontal lines at the top and bottom sections of the screen with RGV 4PIN. | | | RGV 4PIN | RGV 4PIN  |
| 1) Since there is no 4SBO for vertical correction, there will be a slight imbalance, but adjust to eliminate the distortion from the horizontal line at either the top or the bottom of the screen.<br>2) In many cases, the horizontal lines at the top and bottom sections of the screen are not straight lines after the adjustment. As long as the secondary distortion is mild enough that it can be corrected with the PIN adjustment, this is OK. | | | | |
| **GREEN VERTICAL TRAPEZOIDAL DISTORTION ADJUSTMENT** | | | <RGV MENU> | |
| 1. Adjust with RGV SSKW so that the tilt of the horizontal lines at the top and bottom sections of the screen is symmetrical about the center position horizontal line. | | | RGV SSKW | RGV SSKW  |
| 2. Adjust with RGV MKEY so that there is no tilt for the line sections at both sides of the horizontal lines at the center section of the stream. | | | RGV MKEY |  |
| 3. Adjust with RGV KEY so that there is no tilt for the horizontal lines at the top and bottom sections of the screen. | | | RGV KEY | |
| 4. While tracking, adjust with RGV MKEY and RGV KEY so that there is no tilt for the horizontal lines on the entire screen. | | | | |
| 5. If the tilt is unbalanced after the RGV MKEY and RGV KEY adjustment, adjust again with RGV SSKW. | | | RGV SSKW |  |

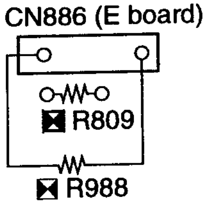
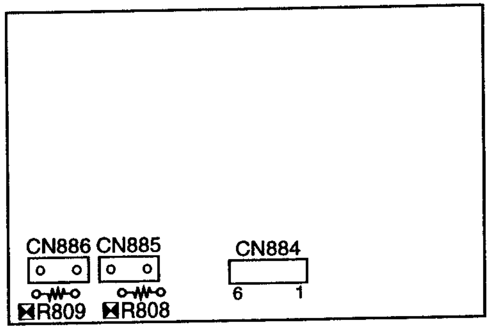
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **GREEN VERTICAL ASYMMETRICAL PIN DISTORTION (SECONDARY DISTORTION) ADJUSTMENT**<br>1. Correct the asymmetrical pin distortion at the top and bottom sections of the screen with RGV SBOW. | | | <RGV MENU><br>RGV SBOW | RGV SBOW<br> |
| **GREEN VERTICAL ASYMMETRICAL PIN DISTORTION ADJUSTMENT**<br>1. Adjust the pin distortion for both side sections and the center of the screen with RGV MPIN.<br>2. Adjust with RGV PIN so that the horizontal lines at the top and bottom sections of the screen are straight lines.<br>3. Adjust with RGV MPIN and RGV PIN so that there is no curve in the horizontal lines on the entire screen. | | | <RGV MENU><br>RGV MPIN<br>RGV PIN |  |
| 4. After the adjustments in Items 1-3, adjust the tracking with RGV SBOW, RGV MPIN, and RGV PIN. | | | RGV SBOW |  |

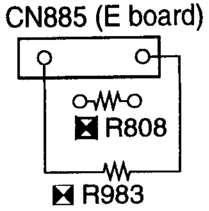
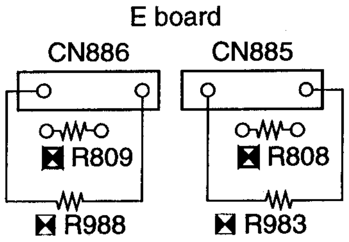
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **GREEN AND RED REGISTRATION ADJUSTMENT (RRH, RRV)**<br>1. Receive a PAL cross-hatch signal.<br>2. Adjust so that the red lines lay on the green lines. Adjust with the same procedure as the GREEN SUB adjustment.<br>Notes: 1. The main correction is not carried out during red registration adjustment.<br>2. Beware. The green adjustment items can be changed by mistake.<br>3. Unlike for green, adjust within the range -127 ~ +128. | PAL Cross-hatch pattern | | | |
| **GREEN AND BLUE REGISTRATION ADJUSTMENT (RBH, RBV)**<br>1. Receive a PAL cross-hatch signal.<br>2. Adjust so that the blue and green lines are on top of each other.<br>Notes : 1. The main correction is not carried out during RED registration adjustment.<br>2. Beware. The GREEN and RED adjustment items can be changed by mistake. | PAL Cross-hatch pattern | | | |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **AGC ADJUSTMENT** | | | | |
| 1. Receive an off-air signal.<br>2.Adjust the AGC VR ( IF 1001 ) so that there is no snow noise and cross-modulation. | | | | |
| **WHITE BALANCE ADJUSTMENT** | | | | |
| 1. Receive the monoscope pattern signal and adjust the picture quality with the menu. | Monoscope pattern | | PICTURE<br>.......... minimum<br>< RGB MENU > | |
| 2. Adjust service mode SBRT so that the signal 10 IRE section barely glows. | | | SBRT | |
| 3. Receive the all-white pattern signal. | All White pattern | | GCUT | |
| 4. Adjust the white balance with service mode GCUT and BCUT. | | | BCUT | |
| 5. Adjust service mode SBRT so that the signal 100 IRE section barely glows. | | | PICTURE<br>.......... minimum | |
| 6. Adjust the white balance with service mode GAMP and BAMP. | | | GAMP<br>BAMP | |
| 7. Repeatedly adjust the white balance for the minimum and maximum picture settings. | | | PICTURE<br>.......... maximum | |

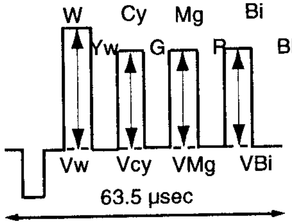
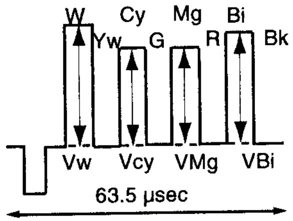
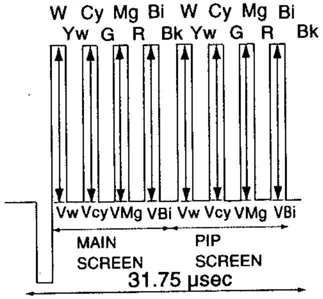
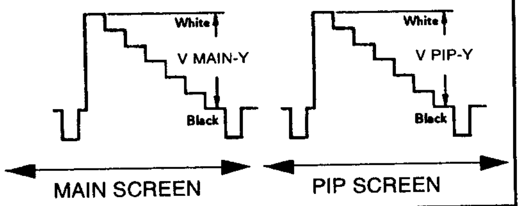
# SECTION 4
# SAFETY RELATED ADJUSTMENTS

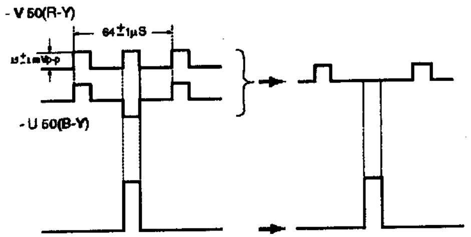
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **HV HOLD DOWN CIRCUIT OPERATIONS CHECK AND ADJUSTMENT (⊠ RESISTOR)**<br>When replacing the parts marked ◪ on the right, check the HV hold down and adjust. | | ◪ marked parts<br>C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R883, R954, R955, R984, R988, R991, R995, R996, T801(FBT),T803<br>............. E board<br>HV Block | ⊠ R809, R988 | E BOARD – COMPONENT SIDE –<br> |
| 1. Remove the cap for the unconnected pin in the high-voltage block and connect a Static Voltmeter.<br>2. Input 240 VAC power. | Static Voltmeter | HV Block | | <br>Remove the cap off from the unused terminal and connect a static voltmeter there. |
| 3. Receive the Dot siganl and set the PICTURE and BRIGHTNESS settings to their minimums. | Dot pattern | | PICTURE<br>............ minimum<br>BRIGHTNESS<br>............ minimum | |
| 4. Connect a 33 kΩ variable resistor across the E board CN885 connector (with the variable resistor set to its maximum). | | | |  |

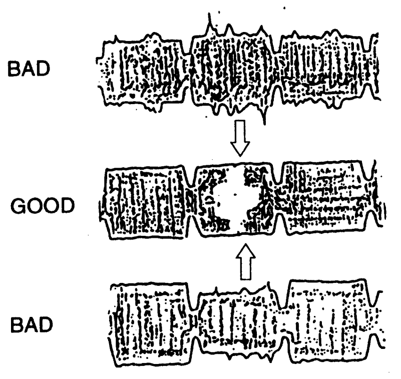
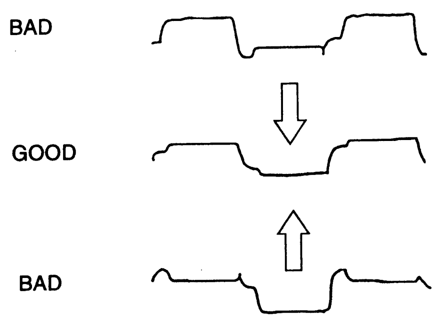
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| 5. Gradually lower the value of the variable resistor and check that the hold down circuit operates at a Static Voltmeter reading of 33.70 ± 0.80 kVDC and that the rasters disappear. | | | | 33.70 ± 0.80 kVDC |
| 6. If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of 34.0kVDC or higher, remove resistor R809 and mount a 16.0 kΩ 1/4W RN at R988. | | | R988 | 34.0 kVDC or higher<br>16.0 kΩ 1/4W<br><br> |
| If the hold down circuit operates and the rasters disappear at a Static Voltmeter reading of 32.0 kVDC or lower, remove resistor R809 and mount 6.2 kΩ 1/4W RN at R988. | | | R988 | 32.0 kVDC or lower<br>6.2 kΩ 1/4W |
| 7. Check Item 5 again. | | | | |
| **HV REGULATION CIRCUIT CHECK AND ADJUSTMENT (⊠ RESISTOR)**<br>When replacing the parts marked ◪ on the right, check the HV regulation and adjust. | | ◪ marked parts<br>C918, C930, C934, C980, D902, D920, D925, Q909, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R998<br>............ E Board<br>HV Block | ⊠ R808, R983 | E BOARD – COMPONENT SIDE –<br><br> |
| 1. Remove the cap for the unconnected pin in the high-voltage block and connect a Static Voltmeter. | Static Voltmeter | HV Block | | |
| 2. Input 240 VAC power. | | | | |
| 3. Receive the Dot signal and set the PICTURE and BRIGHTNESS settings to their minimums. | Dot pattern | | PICTURE<br>........... minimum<br>BRIGHTNESS<br>........... minimum | |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| 4. Check that the Static Voltmeter reading is 31.0 ± 0.5 kVDC. | | | | 31.0 ±0.5 kVDC<br><br> |
| 5. If the Static Voltmeter reading is 30.4 kVDC or lower, remove resistor R808 and mount 5.6 kΩ 1/4W RN at R983. | | | R983 | 30.4 kVDC or lower<br>5.6 kΩ 1/4W |
| 6. If the Static Voltmeter reading is 31.5 kVDC or higher, remove resistor R808 and mount 8.2 kΩ 1/4W RN at R983. | | | R983 | 31.5 kVDC or higher<br>8.2 kΩ 1/4W |
| 7. If the Static Voltmeter reading is 32.0 kVDC or higher, remove resistor R808 and mount 10.0 kΩ 1/4W RN at R983. | | | R983 | 32.0 kVDC or higher<br>10.0 kΩ 1/4W |
| 8. If any of Items 5, 6 or 7 has been implemented, check Item 4 again. | | | | |
| **HV HOLD DOWN AND HV REGULATOR SIMPLE ADJUSTMENT** | | | | |
| It is normally desirable that the HV hold down and HV regulation checks use a Static-voltmeter. However, sometime one is not available, for example in the field, below is a simple adjustment method. | | | | |
| When replacing parts with the ◪ mark, replace both the resistors with the ⧗ mark R808 (R988) and R809 (R983) with resistors one rank lower in the E-12 series. Do not replace just one of these resistors. Always replace both with resistors one rank lower. | | | R808 (R988)<br>R809 (R983) | <br> E board<br>CN886<br>CN885<br>⧗ R809<br>⧗ R808<br>⧗ R988<br>⧗ R983 |

# SECTION 5
# ELECTRICAL ADJUSTMENTS

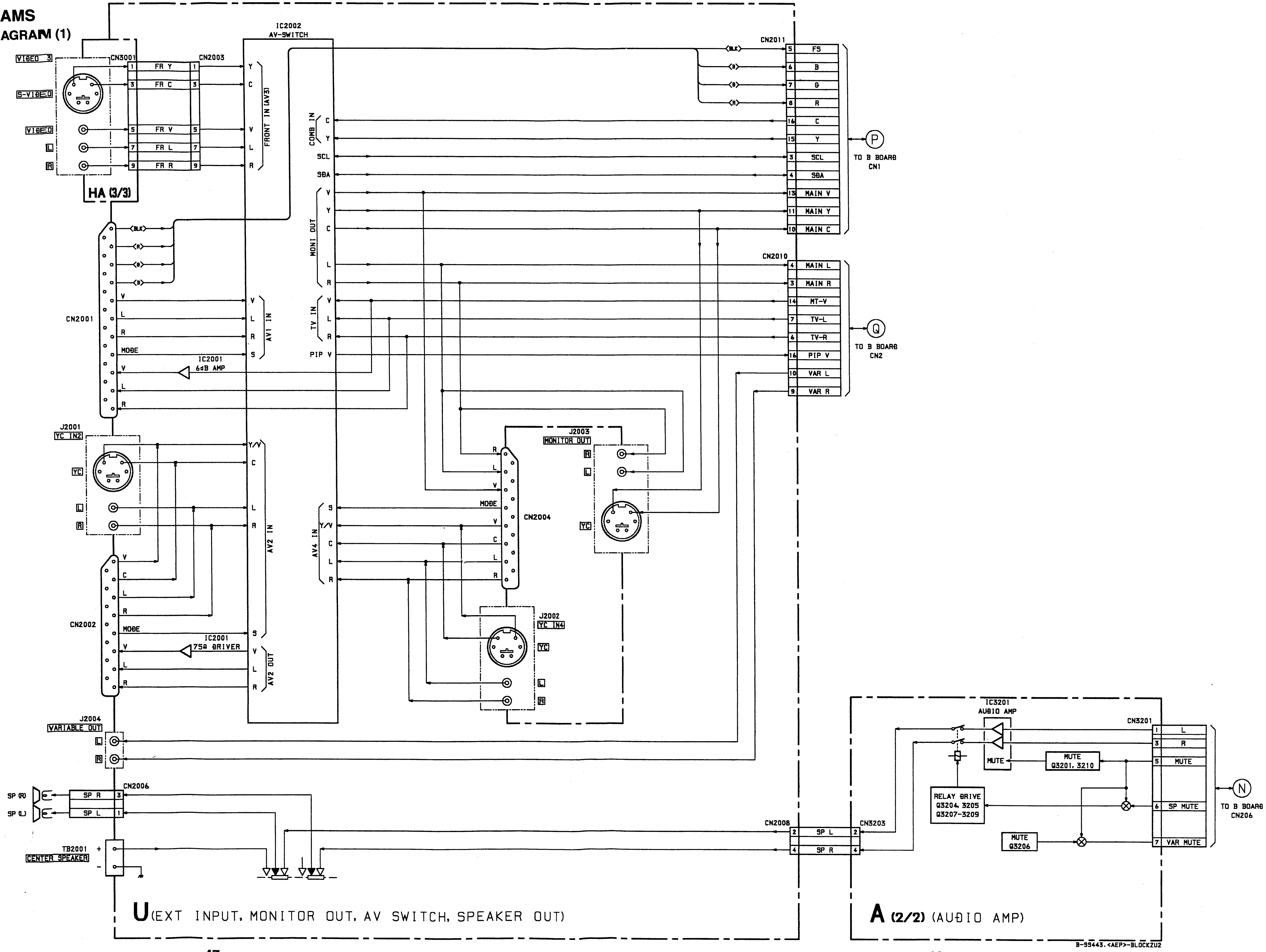
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **B BOARD ADJUSTMENT**<br>**SUB COLOR (SCOL) ADJUSTMENT**<br>1. Input the PAL Color Bar signal and adjustment the picture control.<br>2. Set to service mode.<br>3. Connect an oscilloscope between ⑤ pin of CN201 and ground.<br>4. Adjust SCOL so that Vcy = VMg = VBi in the waveform levels.<br>5. Write the data to memory. | PAL Color Bar pattern<br>Oscilloscope | CN201 ⑤ pin (B(2/3) Board) | PICTURE .... 80%<br>RGB SCOL :<br>Vcy =VMg=VBi | <CN201 ⑤ pin><br> W<br>Cy<br>Mg<br>Bi<br>Yw<br>G<br>R<br>Bk<br>Vw<br>Vcy<br>VMg<br>VBi<br>63.5 μsec |
| **SUB HUE (MHUE,SHUE) ADJUSTMENT**<br>1. Input the NTSC Color Bar signal.<br>2. Set to service mode.<br>3. Connect an oscilloscope between ⑤ pin of CN201 and ground.<br>4. Adjust MHUE so that Vcy = VMg in the waveform levels.<br>5. Write the data to memory. | NTSC Color Bar pattern<br>Oscilloscope | CN201 ⑤ pin (B(2/3) Board) | MCD MHUE :<br>Vcy =VMg | <CN201 ⑤ pin><br> W<br>Cy<br>Mg<br>Bi<br>Yw<br>G<br>R<br>Bk<br>Vw<br>Vcy<br>VMg<br>VBi<br>63.5 μsec |
| (PIP MODE)<br>1. Input the NTSC Color Bar signal.<br>2. Select PIP on screen mode and put the set into service mode.<br>3. Connect an oscilloscope between ⑤ pin of CN201 and ground.<br>4. Adjust SHUE so that Vcy = VMg in the waveform levels.<br>5. Write the data to memory. | NTSC Color Bar pattern<br>Oscilloscope | CN201 ⑤ pin (B(2/3) Board) | SCD SHUE :<br>Vcy =VMg | (PIP MODE) < CN201 ⑤ pin ><br> W Cy Mg Bi W Cy Mg Bi<br>Yw G R Bk Yw G R Bk<br>Vw Vcy VMg VBi Vw Vcy VMg VBi<br>MAIN SCREEN<br>PIP SCREEN<br>31.75 μsec |
| **SUB CONTRAST ADJUSTMENT**<br>(PIP MODE)<br>1. Input the PAL Color Bar signal.<br>2. Select PIP on screen mode and put the set into service mode.<br>3. Connect an oscilloscope Q14 emitter on the B(1/3) board and ground.<br>4. Adjust SCON so that V MAIN-Y = V PIP-Y in the waveform levels.<br>5. Write the data to memory. | PAL Color Bar pattern<br>Oscilloscope | Q14 emitter (B(1/3) Board) | PIP SCON:<br>V MAIN-Y =V PIP-Y | (PIP MODE)<br>< B(1/3) board - Q14 emitter ><br> White<br>V MAIN-Y<br>Black<br>White<br>V PIP-Y<br>Black<br>MAIN SCREEN<br>PIP SCREEN |

| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **SUB WHITE BALANCE ADJUSTMENT**<br>(PIP MODE)<br>1. Input Gray Scale signal 20 IRE.<br>2. Select PIP in screen mode and put the set into service mode.<br>3. Connect an oscilloscope Q15 emitter on the B(1/3) board and ground.<br>4. Adjust RV1 so that V main = Vpip in the waveform levels.<br>5. Connect an oscilloscope Q16 emitter on the B(1/3) board and ground.<br>6. Adjust RV2 so that V main = Vpip in the waveform levels. | Oscilloscope | [ B(1/3) Board ]<br>Q15 emitter (R-Y)<br>Q16 emitter (B-Y) | [ B(1/3) Board ]<br>RV1 (R-Y)<br>RV2 (B-Y) | < Q15 emitter, Q16 emitter ><br><br> |
| **P IN P POSITION ADJUSTMENT**<br>1. Upon receiving the Monoscope signal.<br>2. Set service mode and then press the PIP command twice. The P in P positon will then move periodically to four points. Adjust " RDV " and " RDH " on the new screen so that the four points are distributed equally at ; up, down, left and right.<br>3. Write the data to memory. | Monoscope pattern | | < PIP MENU ><br>RDV<br>RDH | |
| **TEXT POSITION ADJUSTMENT**<br>1. Receive the RF signal with TEXT.<br>2. Set to service mode.<br>3. Set the TEXT in MIX mode and adjust the screen positon with " TXH " and " TXV ".<br>4. Write the data to memory. | | | < TXT MENU ><br>TXH (H position)<br>TXV (V position) | |
| **OSD POSITION ADJUSTMENT**<br>1. Receive the PAL Color Bar signal.<br>2. Set to service mode.<br>3. Adjust " OSH " so that the center line of the signal and the center of the crosshairs of the OSD display match are aligned with each other.<br>4. Write the data to memory. | PAL Color Bar pattern | | < CPU MENU ><br>OSH | |

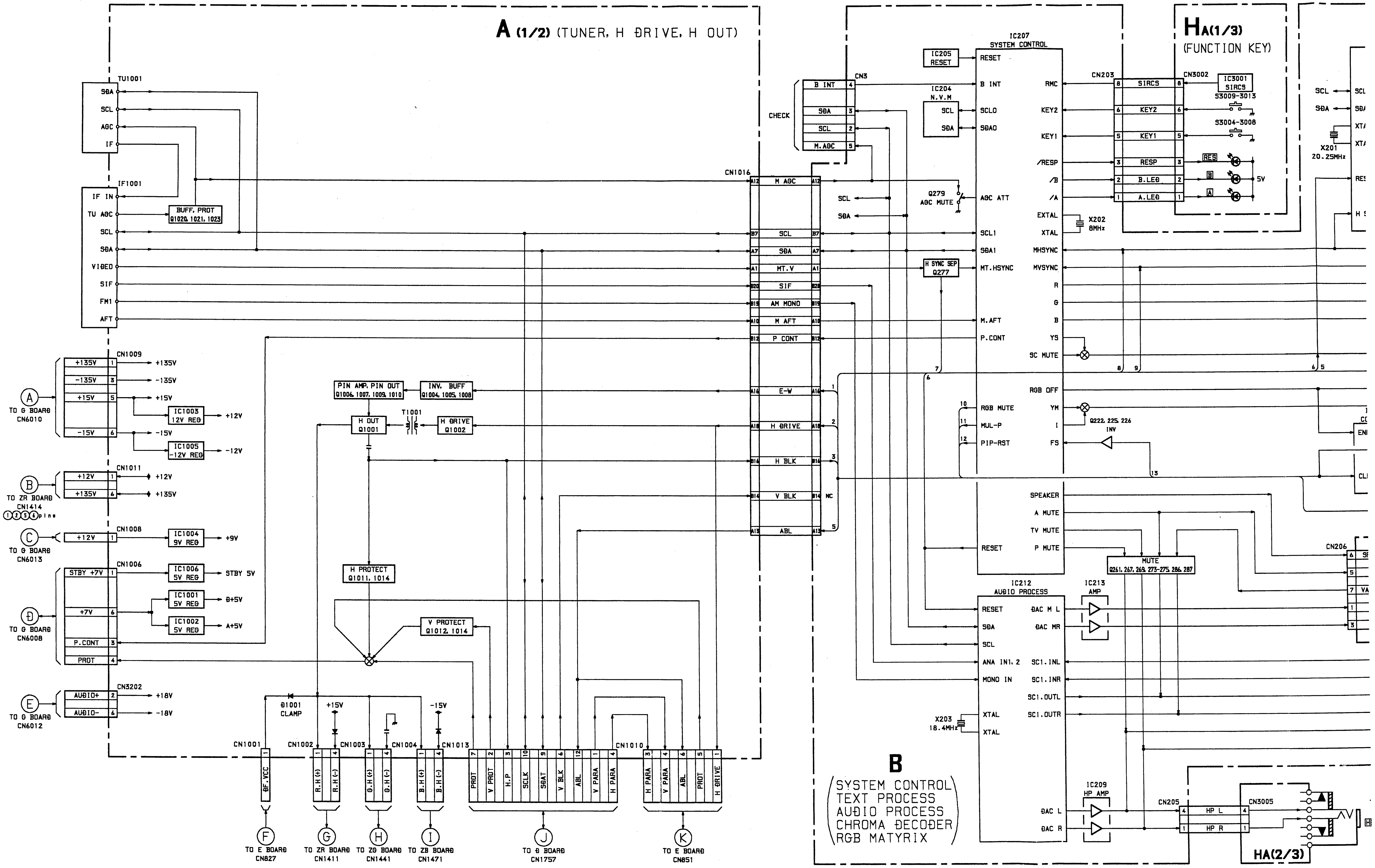
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **B2 BOARD ADJUSTMENT (French only)** | | | | < IC3502 ⑮ pin waveform >  |
| **SECAM FILTER ADJUSTMENT**<br>1. Receive the SECAM Color Bar signal.<br>2. Adjust BELL filter by rotating L3503 so that ⑮ pin IC3502 should be flat/smooth chroma signal.<br>3. Adjust B-Y filter by rotating L3505 so that Q3508 emitter (R-Y out) should getsymmetrical transient between (R-Y)>(B-Y) and (B-Y)>(R-Y). | SECAM Color Bar pattern | IC3502 ⑮ pin<br>Q3508 emitter | L3503<br>L3505 | < Q3508 emitter waveform >  |
| **H. FREQUENCY ADJUSTMENT**<br>1. Connect a frequency counter to ⑫ pin of IC3501.<br>2. Adjust RV3501 so that the frequency counter is 15.625KHz ± 50Hz.<br>3. Input a SECAM Color Bar signal.<br>4. Confirm that ⑫ pin of IC3501 should be 15.625KHz ± 50Hz. | SECAM Color Bar pattern | RV3501 | IC3501 ⑫ pin | |

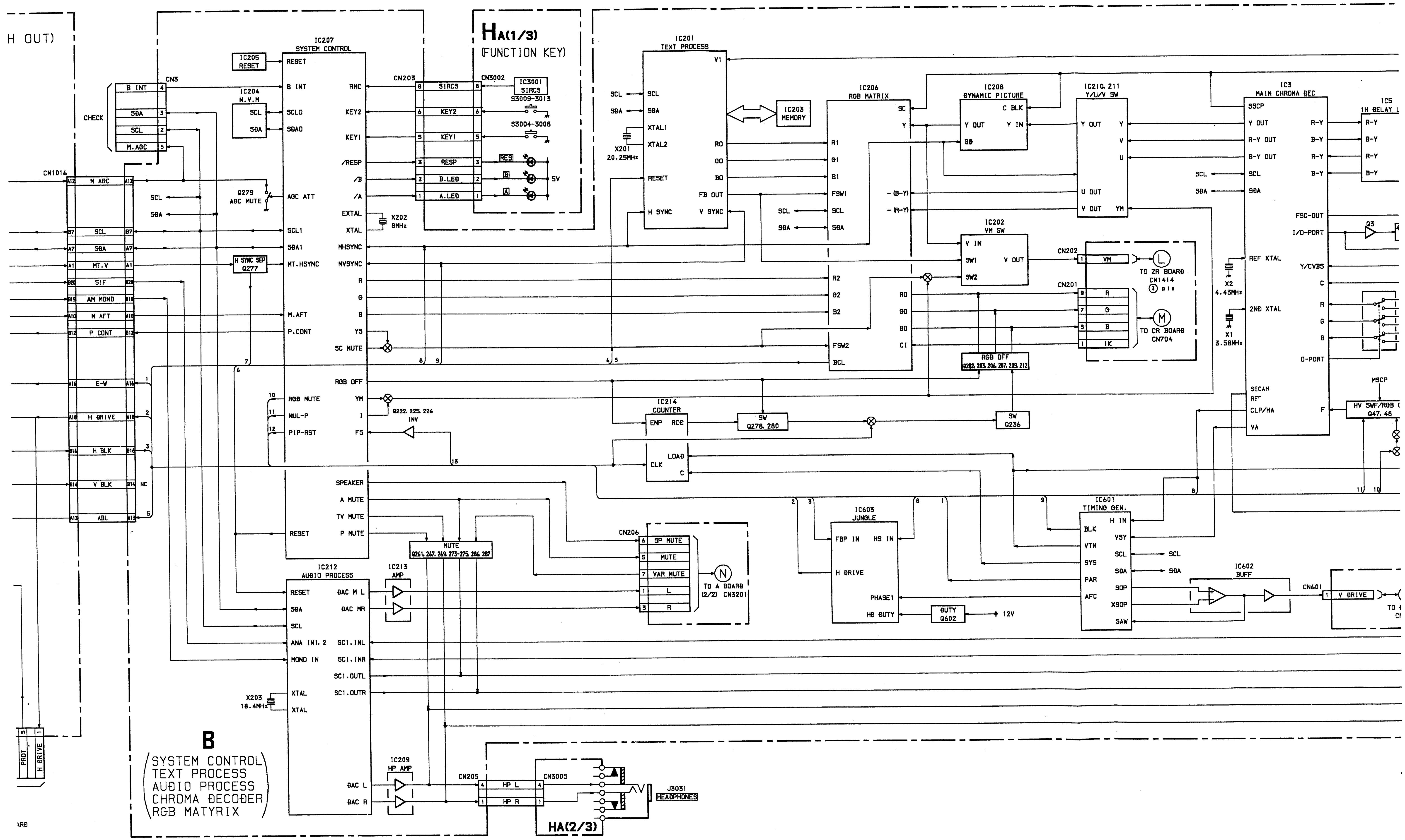
| ADJUSTMENT ITEM AND PROCEDURE | EQUIPMENT AND SIGNAL | MEASUREMENT POSITION | ADJUSTMENT LOCATION | ILLUSTRATION AND SHAPE AND NUMBER |
|---|---|---|---|---|
| **A BOARD ADJUSTMENT** | | | | |
| **V BLANKING SIZE ADJUSTMENT**<br>1. Receive PAL monoscope signal.<br>2. Select "BKU" in D/A menu.<br>3. Reduce the data value by pressing $\boxed{3}$ and $\boxed{6}$ on the commander to adjust blanking size and minimize the shear on the screen top.<br>4. Select "BKD" in D/A menu.<br>5. Raise the data value by pressing $\boxed{3}$ and $\boxed{6}$ on the commander to adjust blanking size and minimize the shear on the screen bottom. | PAL Monoscoope pattern | | | |
| **H SIZE ADJUSTMENT**<br>1. Receive a PAL monoscope signal.<br>2. Set to Service Mode.<br>3. Select H SIZE of VSP menu with the commander buttons $\boxed{1}$ and $\boxed{4}$.<br>4. Adjust to 15.4 ± 0.2 square with $\boxed{3}$ and $\boxed{6}$. | PAL Monoscoope pattern | | | |
| **S CORRECTION ADJUSTMENT**<br>1. Receive a PAL monoscope signal.<br>2. Set to Service Mode.<br>3. Select VSCO of VSP menu with the commander buttons $\boxed{1}$ and $\boxed{4}$.<br>4. Adjust to data "00" with $\boxed{3}$ and $\boxed{6}$. | PAL Monoscoope pattern | | | |
| **V SIZE ADJUSTMENT**<br>1. Receive a PAL monoscope signal.<br>2. Set to Service Mode.<br>3. Select V SIZE of VSP menu with the commander buttons $\boxed{1}$ and $\boxed{4}$.<br>4. Adjust to 11.6 ± 0.2 square with $\boxed{3}$ and $\boxed{6}$. | PAL Monoscoope pattern | | | |

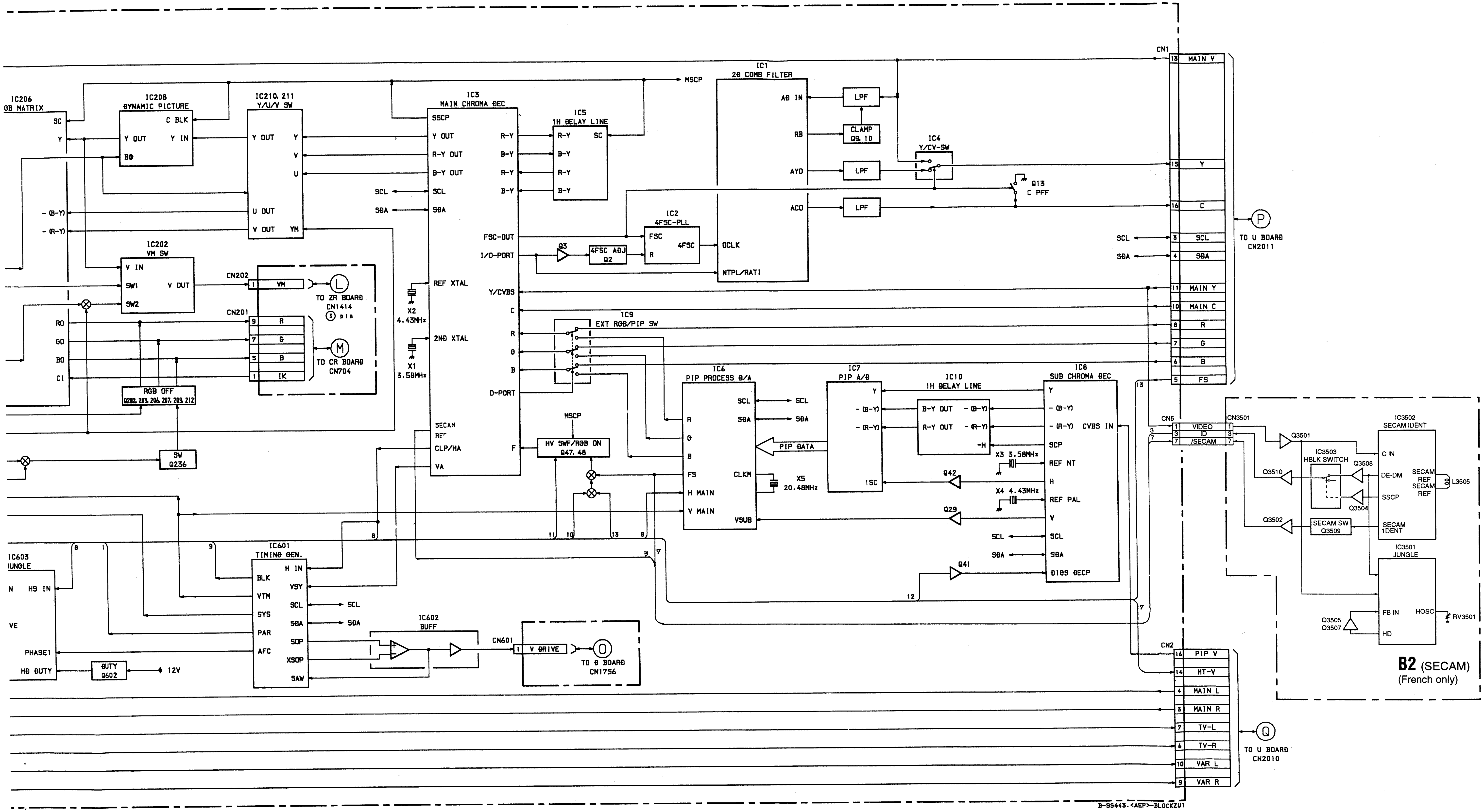
# SECTION 6
# DIAGRAMS
## 6-1. BLOCK DIAGRAM (1)


VIDEO 3
S-VIDEO
VIDEO
L
R
CN3001
FR Y
FR C
FR V
FR L
FR R
CN2003
HA (3/3)
IC2002
AV-SWITCH
FRONT IN (AV3)
COMB IN
SCL
SDA
MONI OUT
TV IN
PIP V
AV1 IN
AV2 IN
AV2 OUT
AV4 IN
<BLK>
<R>
<G>
<B>
CN2001
MODE
IC2001
6dB AMP
J2001
YC IN2
YC
CN2002
IC2001
75Ω DRIVER
J2004
VARIABLE OUT
SP (R)
SP (L)
CN2006
SP R
SP L
TB2001
CENTER SPEAKER
CN2011
FS
B
G
R
C
Y
SCL
SDA
MAIN V
MAIN Y
MAIN C
TO B BOARD
CN1
P
CN2010
MAIN L
MAIN R
MT-V
TV-L
TV-R
PIP V
VAR L
VAR R
TO B BOARD
CN2
Q
J2003
MONITOR OUT
CN2004
J2002
YC IN4
CN2008
U (EXT INPUT, MONITOR OUT, AV SWITCH, SPEAKER OUT)
IC3201
AUDIO AMP
MUTE
CN3201
MUTE
Q3201, 3210
RELAY DRIVE
Q3204, 3205
Q3207-3209
MUTE
Q3206
SP MUTE
VAR MUTE
N
TO B BOARD
CN206
CN3203
A (2/2) (AUDIO AMP)
B-SS443.<AEP>-BLOCKZU2

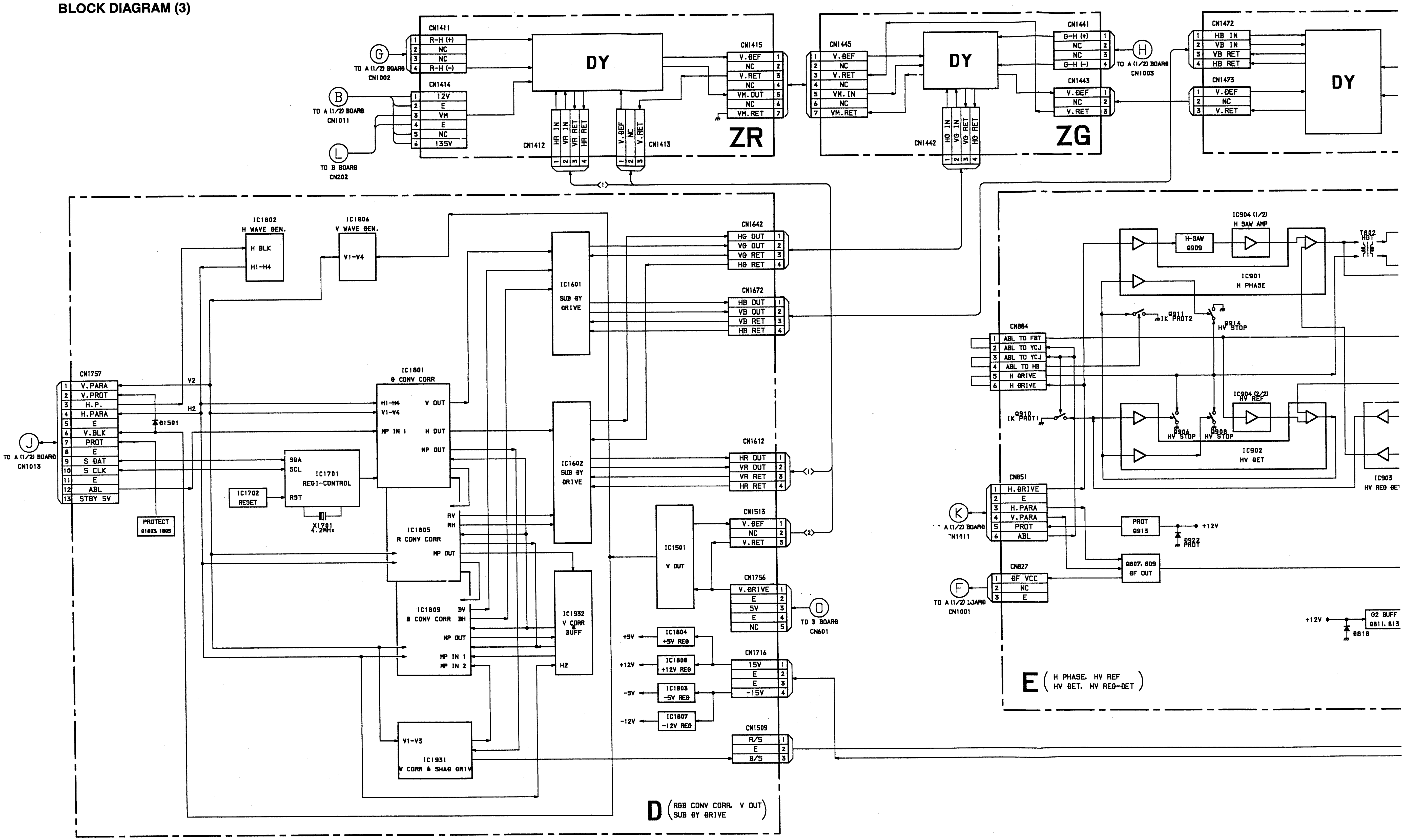
## BLOCK DIAGRAM (2)

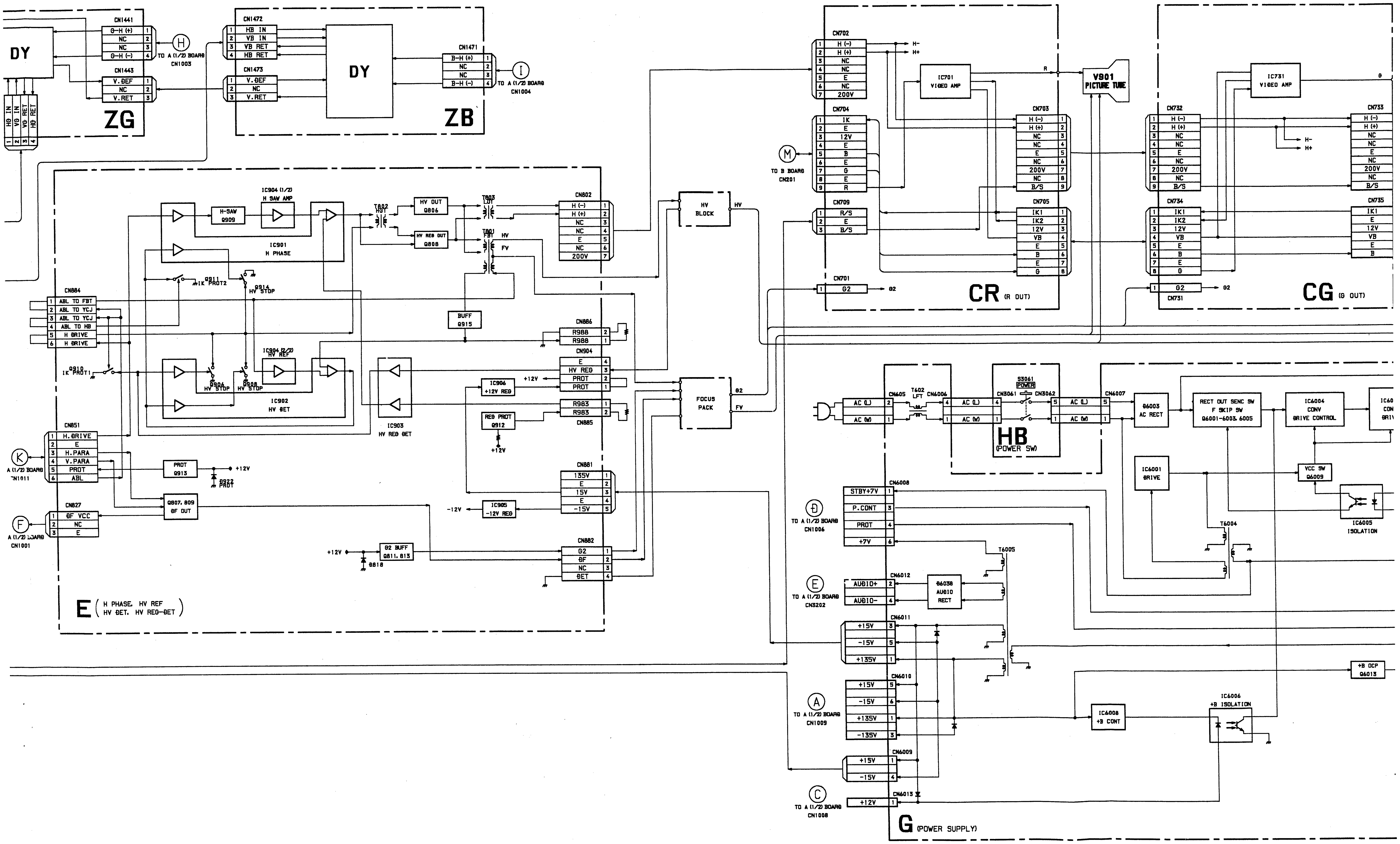

A (1/2) (TUNER, H DRIVE, H OUT)
TU1001
SDA
SCL
AGC
IF
IF1001
IF IN
TU AGC
VIDEO
SIF
FM1
AFT
BUFF. PROT Q1020, 1021, 1023
CN1009
+135V
-135V
+15V
-15V
IC1003 12V REG
+12V
IC1005 -12V REG
-12V
TO G BOARD CN6010
CN1011
TO ZR BOARD CN1414 ①②③④pins
CN1008
IC1004 9V REG
+9V
TO G BOARD CN6013
CN1006
STBY +7V
IC1006 5V REG
STBY 5V
IC1001 5V REG
D+5V
IC1002 5V REG
A+5V
+7V
P.CONT
PROT
TO G BOARD CN6008
CN3202
AUDIO+
AUDIO-
+18V
-18V
TO G BOARD CN6012
PIN AMP, PIN OUT Q1006, 1007, 1009, 1010
INV. BUFF Q1004, 1005, 1008
T1001
H OUT Q1001
H DRIVE Q1002
H PROTECT Q1011, 1014
V PROTECT Q1012, 1014
D1001 CLAMP
CN1001
CN1002
CN1003
CN1004
CN1013
CN1010
DF.VCC
R.H(+)
R.H(-)
G.H(+)
G.H(-)
B.H(+)
B.H(-)
PROT
V PROT
H.P
SCLK
SDAT
V BLK
ABL
V PARA
H PARA
H DRIVE
TO E BOARD CN827
TO ZR BOARD CN1411
TO ZG BOARD CN1441
TO ZB BOARD CN1471
TO D BOARD CN1757
TO E BOARD CN851
CN1016
M AGC
MT.V
AM MONO
M AFT
P CONT
E-W
H BLK
NC
CHECK
B INT
CN3
IC205 RESET
IC204 N.V.M
Q279 AGC MUTE
H SYNC SEP Q277
IC207 SYSTEM CONTROL
RESET
SCLO
SDAO
AGC ATT
SCL1
SDA1
MT.HSYNC
M.AFT
RGB MUTE
MUL-P
PIP-RST
RMC
KEY2
KEY1
/RESP
/B
/A
EXTAL
XTAL
MHSYNC
MVSYNC
R
G
B
YS
SC MUTE
RGB OFF
YM
I
FS
SPEAKER
A MUTE
TV MUTE
P MUTE
X202 8MHz
Q222, 225, 226 INV
MUTE Q261, 267, 269, 273-275, 286, 287
IC212 AUDIO PROCESS
ANA IN1, 2
MONO IN
DAC M L
DAC MR
SC1.INL
SC1.INR
SC1.OUTL
SC1.OUTR
X203 18.4MHz
IC213 AMP
IC209 HP AMP
DAC L
DAC R
B
SYSTEM CONTROL
TEXT PROCESS
AUDIO PROCESS
CHROMA DECODER
RGB MATYRIX
CN203
CN3002
HA(1/3)
(FUNCTION KEY)
SIRCS
RESP
B.LED
A.LED
IC3001 SIRCS
S3009-3013
S3004-3008
RES
5V
X201 20.25MHz
CN206
CN205
HP L
HP R
CN3005
HA(2/3)

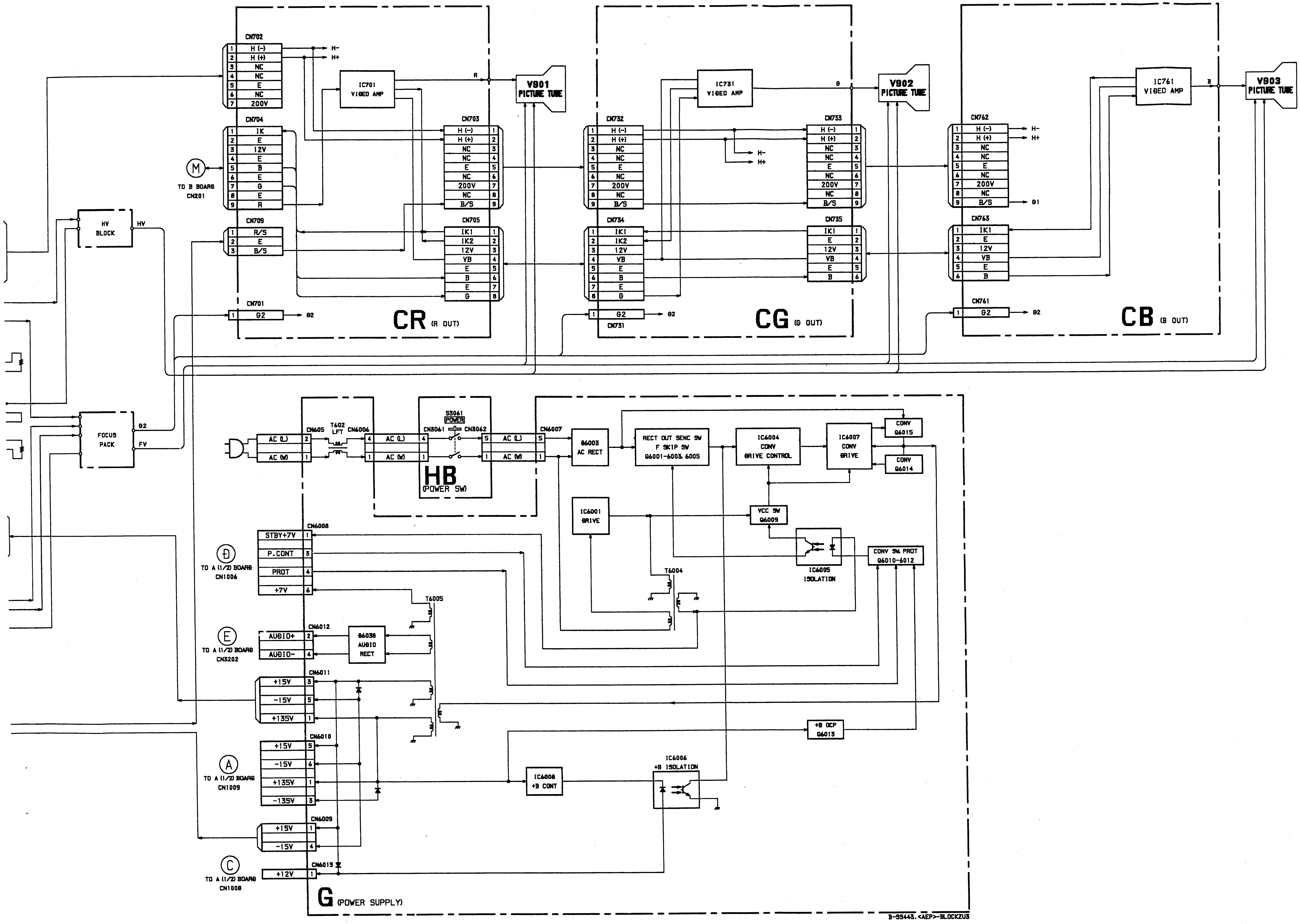

H OUT)
IC207
SYSTEM CONTROL
IC205
RESET
RESET
CN3
B INT
SDA
SCL
M.AGC
CHECK
IC204
N.V.M
SCL
SDA
SCLO
SDAO
B INT
RMC
KEY2
KEY1
/RESP
/B
/A
EXTAL
XTAL
X202
8MHz
MHSYNC
MVSYNC
R
G
B
YS
SC MUTE
RGB OFF
YM
I
FS
RGB MUTE
MUL-P
PIP-RST
Q222, 225, 226
INV
Q279
AGC MUTE
AGC ATT
SCL1
SDA1
MT.HSYNC
H SYNC SEP
Q277
M.AFT
P.CONT
CN1016
M AGC
SCL
SDA
MT.V
SIF
AM MONO
M AFT
P CONT
E-W
H DRIVE
H BLK
V BLK
ABL
NC
CN203
SIRCS
KEY2
KEY1
RESP
B.LED
A.LED
HA(1/3)
(FUNCTION KEY)
CN3002
IC3001
SIRCS
S3009-3013
S3004-3008
RES
B
A
5V
IC201
TEXT PROCESS
V1
SCL
SDA
XTAL1
XTAL2
X201
20.25MHz
RESET
H SYNC
RO
GO
BO
FB OUT
V SYNC
IC203
MEMORY
IC206
RGB MATRIX
SC
Y
R1
G1
B1
FSW1
SCL
SDA
-(B-Y)
-(R-Y)
R2
G2
B2
FSW2
BCL
RO
GO
BO
CI
IC208
DYNAMIC PICTURE
C BLK
Y OUT
Y IN
BD
IC210, 211
Y/U/V SW
Y OUT
Y
V
U
U OUT
V OUT
YM
IC202
VM SW
V IN
SW1
SW2
V OUT
CN202
VM
TO ZR BOARD
CN1414
③ pin
CN201
R
G
B
IK
TO CR BOARD
CN704
RGB OFF
Q202, 203, 204, 207, 209, 212
IC214
COUNTER
ENP
RCO
CLK
LOAD
C
SW
Q278, 280
SW
Q236
IC3
MAIN CHROMA DEC
SSCP
Y OUT
R-Y OUT
B-Y OUT
SCL
SDA
R-Y
B-Y
R-Y
B-Y
FSC-OUT
I/O-PORT
REF XTAL
X2
4.43MHz
2ND XTAL
X1
3.58MHz
Y/CVBS
C
R
G
B
O-PORT
SECAM
REF
CLP/HA
VA
F
IC5
1H DELAY L
R-Y
B-Y
R-Y
B-Y
Q3
MSCP
HV SWF/RGB
Q47, 48
IC601
TIMING GEN.
H IN
BLK
VTM
SYS
PAR
AFC
VSY
SCL
SDA
SOP
XSOP
SAW
IC603
JUNGLE
FBP IN
HS IN
H DRIVE
PHASE1
HD DUTY
DUTY
Q602
12V
IC602
BUFF
CN601
V DRIVE
SPEAKER
A MUTE
TV MUTE
P MUTE
RESET
MUTE
Q261, 267, 269, 273-275, 286, 287
CN206
SP MUTE
MUTE
VAR MUTE
L
R
TO A BOARD
(2/2) CN3201
IC212
AUDIO PROCESS
RESET
SDA
SCL
ANA IN1, 2
MONO IN
XTAL
XTAL
X203
18.4MHz
DAC M L
DAC MR
SC1.INL
SC1.INR
SC1.OUTL
SC1.OUTR
DAC L
DAC R
IC213
AMP
IC209
HP AMP
CN205
HP L
HP R
CN3005
J3031
HEADPHONES
HA(2/3)
PROT
H DRIVE
B
SYSTEM CONTROL
TEXT PROCESS
AUDIO PROCESS
CHROMA DECODER
RGB MATYRIX


IC206
DB MATRIX
SC
Y
-(B-Y)
-(R-Y)
RO
GO
BO
CI
IC208
DYNAMIC PICTURE
C BLK
Y OUT
Y IN
BD
IC210, 211
Y/U/V SW
Y OUT
Y
V
U
U OUT
V OUT
YM
IC202
VM SW
V IN
SW1
V OUT
SW2
CN202
VM
TO ZR BOARD
CN1414
8 pin
CN201
R
G
B
IK
TO CR BOARD
CN704
RGB OFF
Q202, 203, 206, 207, 209, 212
SW
Q236
IC3
MAIN CHROMA DEC
SSCP
Y OUT
R-Y OUT
B-Y OUT
SCL
SDA
R-Y
B-Y
FSC-OUT
I/O-PORT
REF XTAL
2ND XTAL
Y/CVBS
C
R
G
B
O-PORT
SECAM
REF
CLP/HA
VA
F
X2
4.43MHz
X1
3.58MHz
MSCP
IC5
1H DELAY LINE
SC
Q3
4FSC ADJ
Q2
IC2
4FSC-PLL
FSC
4FSC
IC1
2D COMB FILTER
AD IN
RD
AYO
ACO
OCLK
NTPL/RATI
LPF
CLAMP
Q9, 10
IC4
Y/CV-SW
Q13
C PFF
IC9
EXT RGB/PIP SW
HV SWF/RGB ON
Q47, 48
IC6
PIP PROCESS D/A
SCL
SDA
FS
H MAIN
V MAIN
CLKM
VSUB
X5
20.48MHz
PIP DATA
IC7
PIP A/D
ISC
IC10
1H DELAY LINE
B-Y OUT
R-Y OUT
-H
Q42
Q29
Q41
X3 3.58MHz
X4 4.43MHz
IC8
SUB CHROMA DEC
CVBS IN
SCP
REF NT
REF PAL
H
V
DIGS DECP
CN1
MAIN V
Y
C
SCL
SDA
MAIN Y
MAIN C
R
G
B
FS
P
TO U BOARD
CN2011
CN5
VIDEO
ID
/SECAM
CN3501
Q3501
IC3502
SECAM IDENT
C IN
DE-DM
SSCP
SECAM REF
SECAM REF
L3505
IC3503
HBLK SWITCH
Q3508
Q3510
Q3504
Q3502
SECAM SW
Q3509
SECAM IDENT
IC3501
JUNGLE
FB IN
HOSC
HD
Q3505
Q3507
RV3501
B2 (SECAM)
(French only)
IC603
JUNGLE
HS IN
PHASE1
HD DUTY
DUTY
Q602
12V
IC601
TIMING GEN.
H IN
BLK
VSY
VTM
SYS
PAR
AFC
SCL
SDA
SOP
XSOP
SAW
IC602
BUFF
CN601
V DRIVE
TO D BOARD
CN1756
CN2
PIP V
MT-V
MAIN L
MAIN R
TV-L
TV-R
VAR L
VAR R
Q
TO U BOARD
CN2010
B-SS443.<AEP>-BLOCKZU1

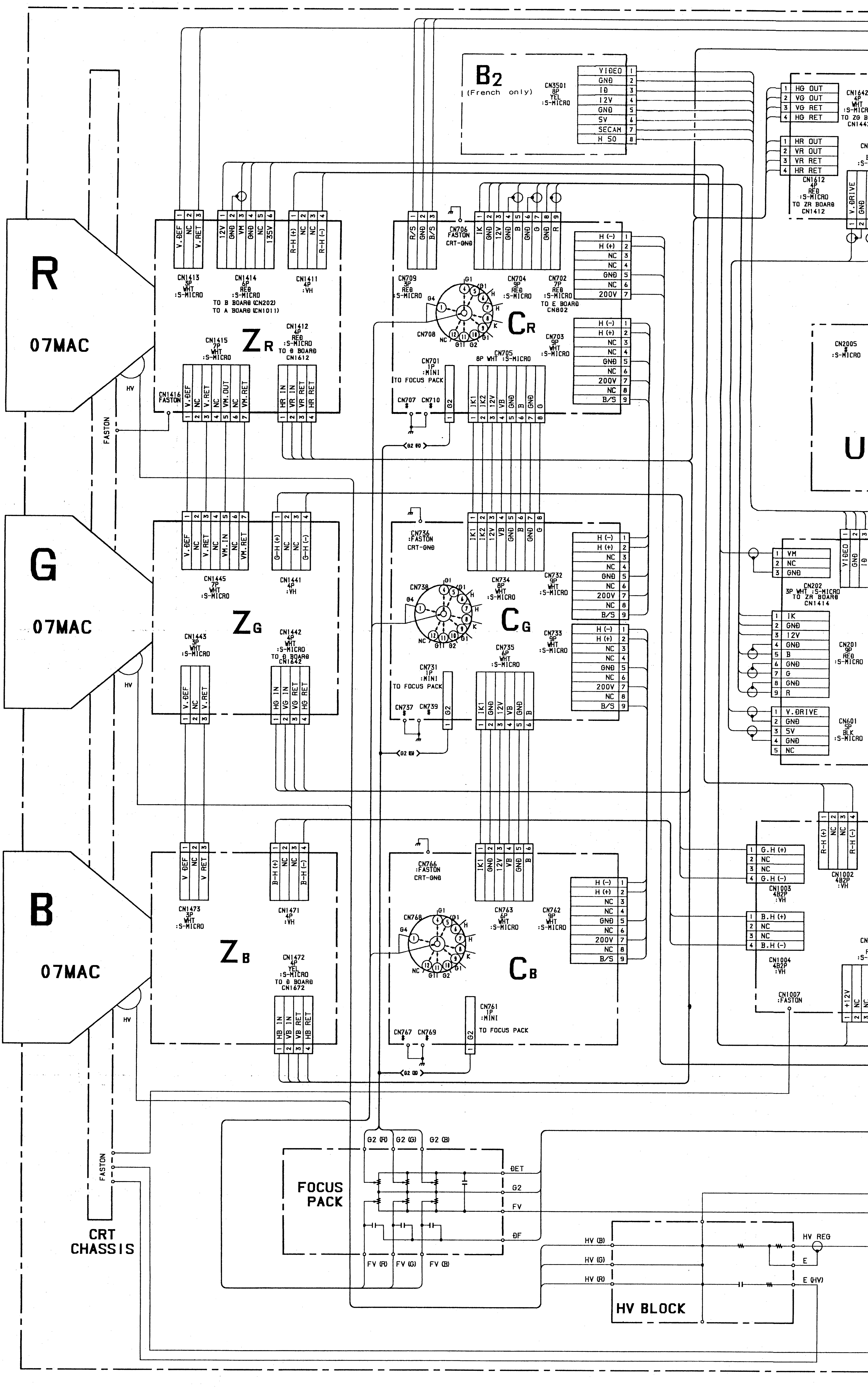
# BLOCK DIAGRAM (3)

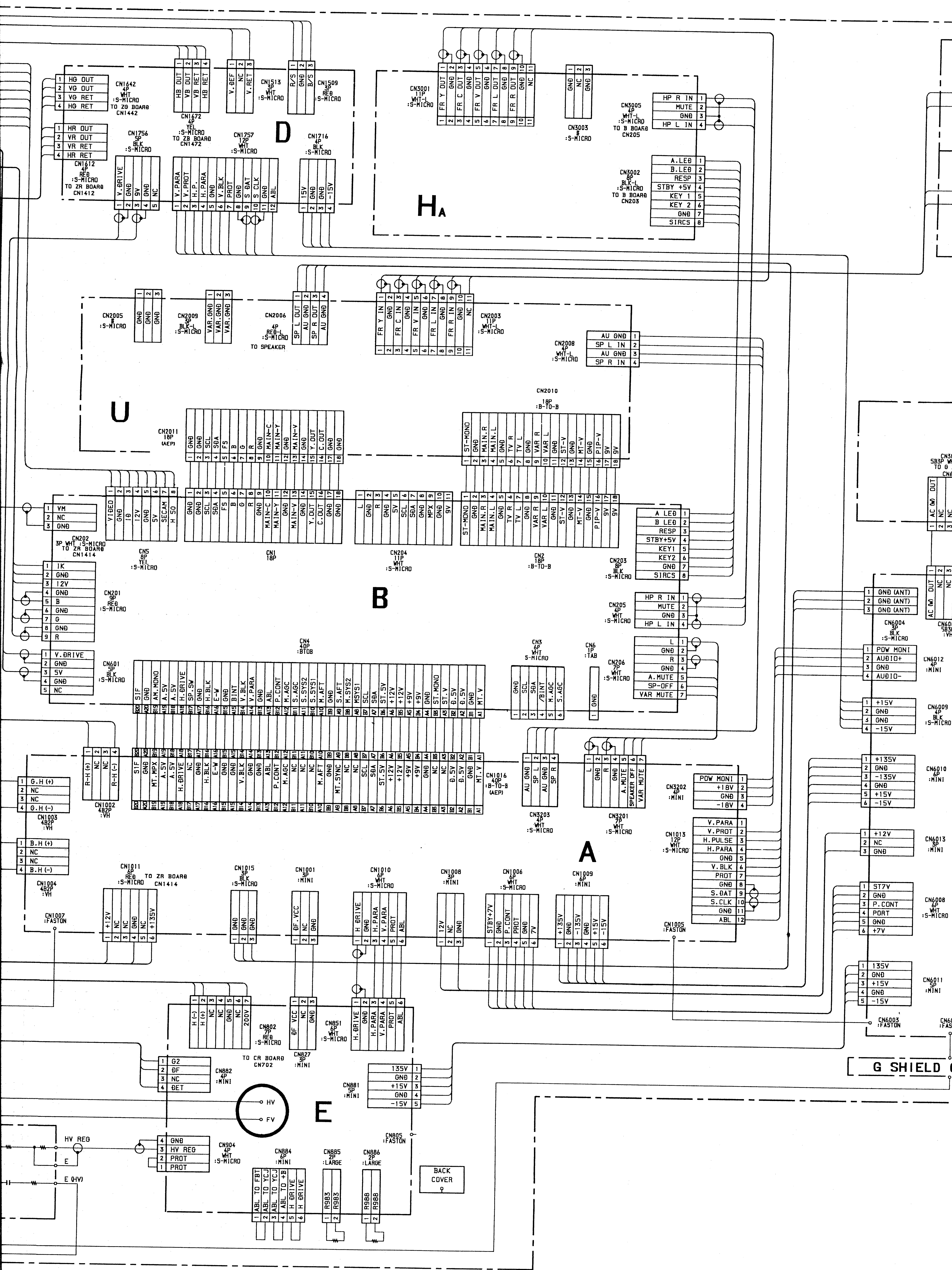

CN1411
R-H (+)
NC
NC
R-H (-)
G
TO A (1/2) BOARD CN1002
CN1414
12V
E
VM
E
NC
135V
B
TO A (1/2) BOARD CN1011
L
TO B BOARD CN202
DY
CN1415
V.DEF
NC
V.RET
NC
VM.OUT
NC
VM.RET
HR IN
VR IN
VR RET
HR RET
CN1412
V.DEF
NC
V.RET
CN1413
ZR
<1>
CN1445
V.DEF
NC
V.RET
NC
VM.IN
NC
VM.RET
DY
CN1441
G-H (+)
NC
NC
G-H (-)
H
TO A (1/2) BOARD CN1003
CN1443
V.DEF
NC
V.RET
HG IN
VG IN
VG RET
HG RET
CN1442
ZG
CN1472
HB IN
VB IN
VB RET
HB RET
CN1473
V.DEF
NC
V.RET
DY
IC1802
H WAVE GEN.
H BLK
H1-H4
IC1806
V WAVE GEN.
V1-V4
IC1601
SUB DY DRIVE
CN1642
HG OUT
VG OUT
VG RET
HG RET
CN1672
HB OUT
VB OUT
VB RET
HB RET
CN1757
V.PARA
V.PROT
H.P.
H.PARA
E
V.BLK
PROT
E
S DAT
S CLK
E
ABL
STBY 5V
J
TO A (1/2) BOARD CN1013
V2
H2
D1501
PROTECT
Q1803, 1805
IC1801
G CONV CORR
H1-H4
V1-V4
MP IN 1
V OUT
H OUT
MP OUT
SDA
SCL
RST
IC1701
REGI-CONTROL
IC1702
RESET
X1701
4.2MHz
IC1805
R CONV CORR
RV
RH
MP OUT
IC1602
SUB DY DRIVE
CN1612
HR OUT
VR OUT
VR RET
HR RET
<1>
IC1501
V OUT
CN1513
V.DEF
NC
V.RET
<2>
IC1809
B CONV CORR
BV
BH
MP OUT
MP IN 1
MP IN 2
IC1932
V CORR BUFF
H2
CN1756
V.DRIVE
E
5V
E
NC
O
TO B BOARD CN601
+5V
IC1804
+5V REG
+12V
IC1808
+12V REG
-5V
IC1803
-5V REG
-12V
IC1807
-12V REG
CN1716
15V
E
E
-15V
V1-V3
IC1931
V CORR & SHAD DRIV
CN1509
R/S
E
B/S
D (RGB CONV CORR, V OUT
SUB DY DRIVE)
IC904 (1/2)
H SAW AMP
H-SAW
Q909
IC901
H PHASE
T802
HDT
Q911
IK PROT2
Q914
HV STOP
CN884
ABL TO FBT
ABL TO YCJ
ABL TO YCJ
ABL TO HB
H DRIVE
H DRIVE
IC904 (2/2)
HV REF
Q910
IK PROT1
Q906
HV STOP
Q908
HV STOP
IC902
HV DET
IC903
HV REG DE
CN851
H.DRIVE
E
H.PARA
V.PARA
PROT
ABL
K
A (1/2) BOARD CN1011
PROT
Q913
+12V
D922
PROT
CN827
DF VCC
NC
E
F
TO A (1/2) BOARD CN1001
Q807, 809
DF OUT
+12V
G2 BUFF
Q811, 813
D818
E (H PHASE, HV REF
HV DET, HV REG-DET)

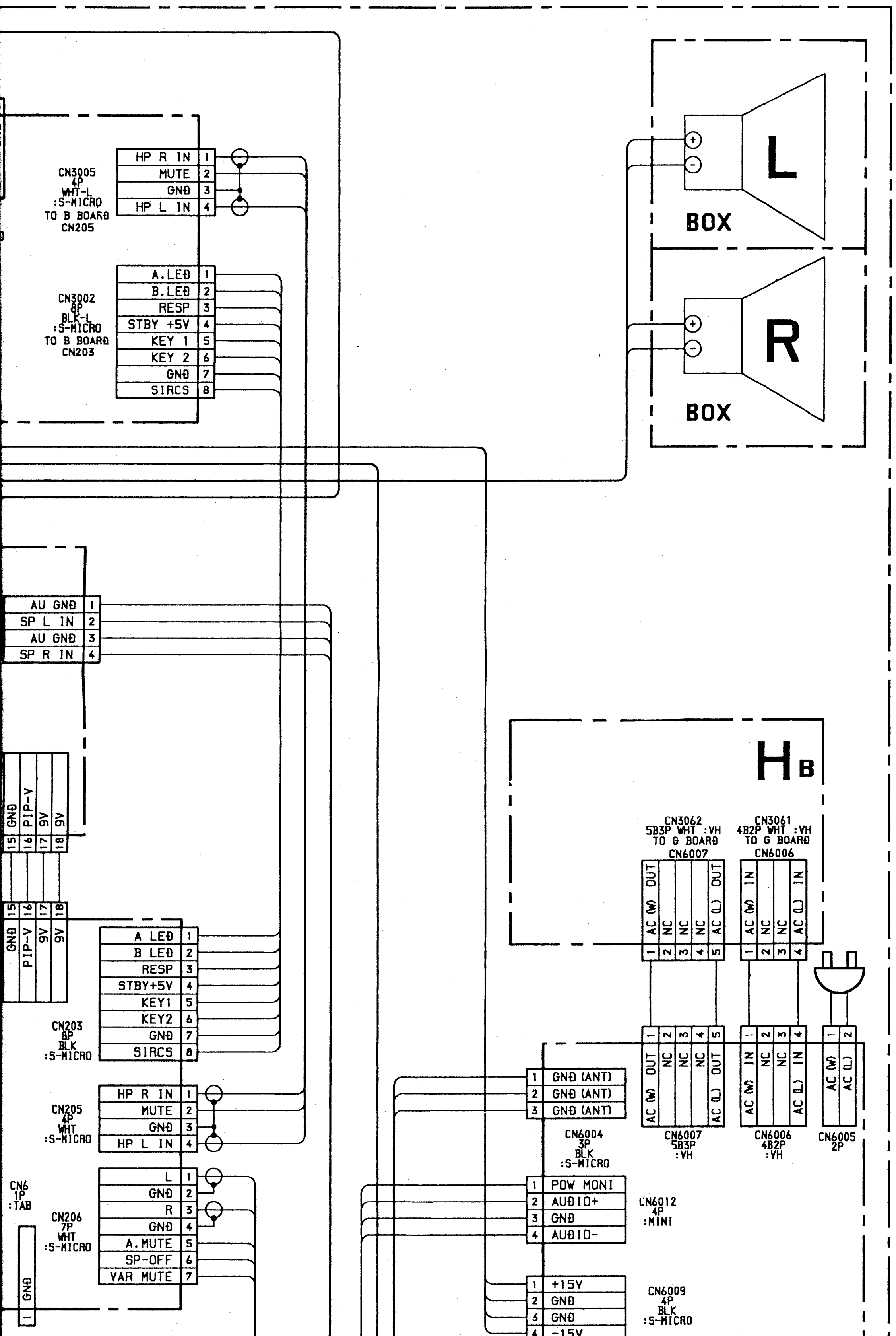

DY
CN1441
G-H (+)
NC
NC
G-H (-)
CN1443
V.DEF
NC
V.RET
HD IN
VD IN
VD RET
HD RET
ZG
TO A (1/2) BOARD CN1003
CN1472
HD IN
VD IN
VD RET
HD RET
CN1473
V.DEF
NC
V.RET
DY
CN1471
D-H (+)
NC
NC
D-H (-)
TO A (1/2) BOARD CN1004
ZB
IC904 (1/2) H SAW AMP
H-SAW Q909
IC901 H PHASE
T802 HDT
HV OUT Q806
HV REG OUT Q808
T803 LOT
T801 FBT
HV
FV
BUFF Q915
CN802
H (-)
H (+)
NC
NC
E
NC
200V
Q911 IK PROT2
Q914 HV STOP
CN884
ABL TO FBT
ABL TO YCJ
ABL TO YCJ
ABL TO HD
H DRIVE
H DRIVE
Q910 IK PROT1
IC904 (2/2) HV REF
Q906 HV STOP
Q908 HV STOP
IC902 HV DET
IC903 HV REG DET
CN886
R988
R988
CN904
E
HV REG
PROT
PROT
IC906 +12V REG
+12V
REG PROT Q912
+12V
CN883
R983
R983
CN885
CN851
H.DRIVE
E
H.PARA
V.PARA
PROT
ABL
A (1/2) BOARD CN1011
PROT Q913
+12V
D922 PROT
Q807, 809 DF OUT
CN827
DF VCC
NC
E
A (1/2) BOARD CN1001
CN881
135V
E
15V
E
-15V
IC905 -12V REG
-12V
+12V
D2 BUFF Q811, 813
D818
CN882
G2
DF
NC
DET
E ( H PHASE, HV REF HV DET, HV REG-DET )
HV BLOCK
HV
FOCUS PACK
D2
FV
CN702
H (-)
H (+)
NC
NC
E
NC
200V
H-
H+
IC701 VIDEO AMP
R
V801 PICTURE TUBE
CN704
IK
E
12V
E
B
E
G
E
R
TO B BOARD CN201
CN703
H (-)
H (+)
NC
NC
E
NC
200V
NC
B/S
CN709
R/S
E
B/S
CN705
IK1
IK2
12V
VB
E
E
B
E
G
CN701
G2
G2
CR (R OUT)
IC731 VIDEO AMP
G
CN732
H (-)
H (+)
NC
NC
E
NC
200V
NC
B/S
H-
H+
CN733
H (-)
H (+)
NC
NC
E
NC
200V
NC
B/S
CN734
IK1
IK2
12V
VB
E
B
E
G
CN735
IK1
E
12V
VB
E
B
G2
G2
CN731
CG (G OUT)
CN605
T602 LFT
CN6006
AC (L)
AC (N)
S3061 POWER
CN3061
CN3062
HB (POWER SW)
CN6007
D6003 AC RECT
RECT OUT SENC SW F SKIP SW Q6001-6003, 6005
IC6004 CONV DRIVE CONTROL
IC60
IC6001 DRIVE
VCC SW Q6009
IC6005 ISOLATION
T6004
T6005
CN6008
STBY+7V
P.CONT
PROT
+7V
TO A (1/2) BOARD CN1006
CN6012
AUDIO+
AUDIO-
D6038 AUDIO RECT
TO A (1/2) BOARD CN3202
CN6011
+15V
-15V
+135V
CN6010
+15V
-15V
+135V
-135V
TO A (1/2) BOARD CN1009
CN6009
+15V
-15V
CN6013
+12V
TO A (1/2) BOARD CN1008
+B OCP Q6013
IC6006 +B ISOLATION
IC6008 +B CONT
G (POWER SUPPLY)


CN702
H (-)
H (+)
NC
NC
E
NC
200V
H-
H+
IC701
VIDEO AMP
R
V901
PICTURE TUBE
CN704
IK
E
12V
E
B
E
G
E
R
M
TO B BOARD
CN201
CN703
H (-)
H (+)
NC
NC
E
NC
200V
NC
B/S
HV BLOCK
HV
CN709
R/S
E
B/S
CN705
IK1
IK2
12V
VB
E
B
E
G
CN701
G2
G2
CR (R OUT)
IC731
VIDEO AMP
G
V902
PICTURE TUBE
CN732
CN733
H-
H+
CN734
CN735
CN731
CG (G OUT)
IC761
VIDEO AMP
B
V903
PICTURE TUBE
CN762
G1
CN763
CN761
CB (B OUT)
FOCUS PACK
G2
FV
CN605
T602 LFT
CN6006
AC (L)
AC (N)
S3061 POWER
CN3061
CN3062
CN6007
HB (POWER SW)
D6003 AC RECT
RECT OUT SENC SW
F SKIP SW
Q6001-6003, 6005
IC6004 CONV DRIVE CONTROL
IC6007 CONV DRIVE
CONV Q6015
CONV Q6014
IC6001 DRIVE
VCC SW Q6009
IC6005 ISOLATION
CONV SW PROT Q6010-6012
T6004
T6005
CN6008
STBY+7V
P.CONT
PROT
+7V
D
TO A (1/2) BOARD CN1006
CN6012
AUDIO+
AUDIO-
D6038 AUDIO RECT
E
TO A (1/2) BOARD CN3202
CN6011
+15V
-15V
+135V
CN6010
+15V
-15V
+135V
-135V
A
TO A (1/2) BOARD CN1009
IC6008 +B CONT
+B OCP Q6013
IC6006 +B ISOLATION
CN6009
+15V
-15V
CN6013
+12V
C
TO A (1/2) BOARD CN1008
G (POWER SUPPLY)
B-59443.<AEP>-BLOCKZU3

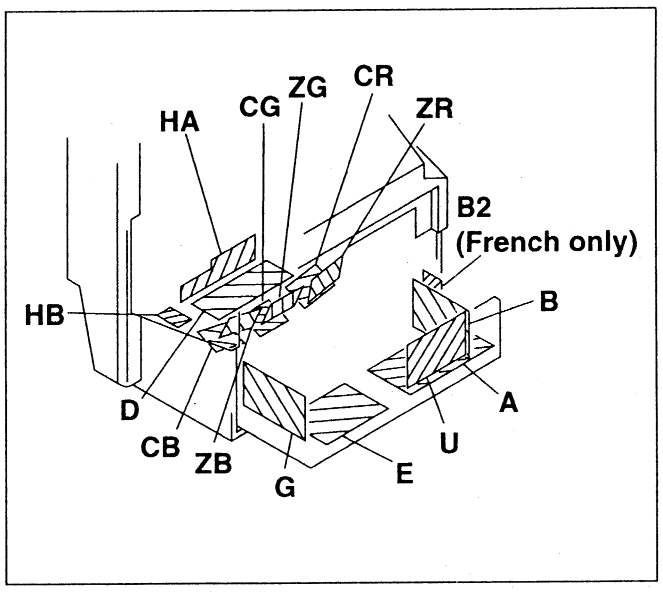
## 6-2. FRAME SCHEMATIC DIAGRAM


R
07MAC
G
07MAC
B
07MAC
HV
FASTON
CRT CHASSIS
B2
(French only)
CN3501 8P YEL :S-MICRO
VIDEO
GND
ID
12V
GND
5V
SECAM
H 50
V.DEF
NC
V.RET
12V
GND
VM
GND
NC
135V
R-H (+)
NC
NC
R-H (-)
CN1413 3P WHT :S-MICRO
CN1414 6P RED :S-MICRO TO B BOARD (CN202) TO A BOARD (CN1011)
CN1411 4P :VH
CN1412 4P RED :S-MICRO TO B BOARD CN1612
CN1415 7P WHT :S-MICRO
ZR
CN1416 FASTON
V.DEF
NC
V.RET
NC
VM.OUT
NC
VM.RET
HR IN
VR IN
VR RET
HR RET
R/S
GND
B/S
CN706 FASTON CRT-GND
IK
GND
12V
GND
B
GND
G
GND
R
CN709 3P RED :S-MICRO
CN704 9P RED :S-MICRO
CN702 7P RED :S-MICRO TO E BOARD CN802
CR
CN708
CN703 9P WHT :S-MICRO
CN701 1P :MINI TO FOCUS PACK
CN705 8P WHT :S-MICRO
CN707
CN710
G2
IK1
IK2
12V
VB
GND
B
GND
G
G2 (R)
H (-)
H (+)
NC
NC
GND
NC
200V
NC
B/S
G1
G4
H
K
G11
G2
CN1642 4P WHT :S-MICRO TO ZG BOARD CN1442
HG OUT
VG OUT
VG RET
HG RET
HR OUT
VR OUT
VR RET
HR RET
CN1612 4P RED :S-MICRO TO ZR BOARD CN1412
V.DRIVE
GND
CN2005 :S-MICRO
U
V.DEF
NC
V.RET
NC
VM.IN
NC
VM.RET
G-H (+)
NC
NC
G-H (-)
CN1445 7P WHT :S-MICRO
CN1441 4P :VH
ZG
CN1443 3P WHT :S-MICRO
CN1442 4P WHT :S-MICRO TO B BOARD CN1642
HG IN
VG IN
VG RET
HG RET
CN736 :FASTON CRT-GND
CN738
CN734 8P WHT :S-MICRO
CN732 9P WHT :S-MICRO
CG
CN733 9P WHT :S-MICRO
CN735 6P WHT :S-MICRO
CN731 1P :MINI TO FOCUS PACK
CN737
CN739
G2 (G)
VM
NC
GND
CN202 3P WHT :S-MICRO TO ZR BOARD CN1414
IK
GND
12V
GND
B
GND
G
GND
R
CN2201 9P RED :S-MICRO
V.DRIVE
GND
5V
GND
NC
CN601 5P BLK :S-MICRO
VIDEO
GND
ID
B-H (+)
NC
NC
B-H (-)
CN1473 3P WHT :S-MICRO
CN1471 4P :VH
ZB
CN1472 4P YEL :S-MICRO TO B BOARD CN1672
HB IN
VB IN
VB RET
HB RET
CN766 :FASTON CRT-GND
CN768
CN763 6P WHT :S-MICRO
CN762 9P WHT :S-MICRO
CB
CN761 1P :MINI TO FOCUS PACK
CN767
CN769
G2 (B)
G.H (+)
NC
NC
G.H (-)
CN1003 4B2P :VH
B.H (+)
NC
NC
B.H (-)
CN1004 4B2P :VH
CN1007 :FASTON
R-H (+)
NC
NC
R-H (-)
CN1002 4B2P :VH
+12V
NC
G2 (R)
G2 (G)
G2 (B)
FOCUS PACK
DET
G2
FV
DF
FV (R)
FV (G)
FV (B)
HV (B)
HV (G)
HV (R)
HV BLOCK
HV REG
E
E (HV)


D
HA
U
B
A
E
G SHIELD
CN1642 4P WHT :S-MICRO TO ZG BOARD CN1442
HG OUT
VG OUT
VG RET
HG RET
CN1612 4P RED :S-MICRO TO ZR BOARD CN1412
HR OUT
VR OUT
VR RET
HR RET
CN1672 4P YEL :S-MICRO TO ZB BOARD CN1472
HB OUT
VB OUT
VB RET
HB RET
V.DEF
NC
V.RET
CN1513 3P WHT :S-MICRO
R/S
GND
B/S
CN1509 3P RED :S-MICRO
CN1756 5P BLK :S-MICRO
V.DRIVE
GND
9V
GND
NC
CN1757 12P WHT :S-MICRO
V.PARA
V.PROT
H.P.
H.PARA
GND
V.BLK
PROT
GND
S DAT
S CLK
GND
ABL
CN1716 4P BLK :S-MICRO
15V
GND
GND
-15V
CN3001 11P WHT-L :S-MICRO
FR Y OUT
FR C OUT
FR V OUT
FR L OUT
FR R OUT
CN3003 3P :S-MICRO
CN3005 4P WHT-L :S-MICRO TO B BOARD CN205
HP R IN
MUTE
HP L IN
CN3002 8P BLK-L :S-MICRO TO B BOARD CN203
A.LED
B.LED
RESP
STBY +5V
KEY 1
KEY 2
SIRCS
CN2005 3P :S-MICRO
CN2009 3P BLK-L :S-MICRO
VAR.GND
CN2006 4P RED-L :S-MICRO TO SPEAKER
SP L OUT
AU GND
SP R OUT
CN2003 11P WHT-L :S-MICRO
FR Y IN
FR C IN
FR V IN
FR L IN
FR R IN
CN2008 4P WHT-L :S-MICRO
AU GND
SP L IN
SP R IN
CN2010 18P :B-TO-B
CN2011 18P (AEP)
ST-MONO
MAIN.R
MAIN.L
TV R
TV L
VAR R
VAR L
ST-V
MT-V
PIP-V
SCL
SDA
FS
B
G
R
MAIN-C
MAIN-Y
MAIN-V
Y.OUT
C.OUT
CN202 3P WHT :S-MICRO TO ZR BOARD CN1414
VM
NC
GND
CN5 8P YEL :S-MICRO
VIDEO
IO
12V
5V
SECAM
H 50
CN1 18P
CN204 11P WHT :S-MICRO
MPX
CN2 18P :B-TO-B
CN203 8P BLK :S-MICRO
KEY1
KEY2
STBY+5V
CN205 4P WHT :S-MICRO
CN201 9P RED :S-MICRO
IK
CN601 5P BLK :S-MICRO
V.DRIVE
CN4 40P :BTOB
SIF
AM.MONO
A.5V
H.DRIVE
SP.SW
H.BLK
E-W
BINT
P.CONT
M.AGC
S.AGC
S.SYS2
S.SYS1
M.AFT
S.AFT
M.SYS2
M.SYS1
ST.5V
+12V
+9V
ST.MONO
ST.V
D.5V
MT.V
CN3 6P WHT S-MICRO
/BINT
CN6 1P :TAB
CN206 7P WHT :S-MICRO
A.MUTE
SP-OFF
VAR MUTE
CN1016 40P :B-TO-B (AEP)
MT.MPX
MT.SYNC
CN1002 4B2P :VH
R-H (+)
R-H (-)
CN1003 4B2P :VH
G.H (+)
G.H (-)
CN1004 4B2P :VH
B.H (+)
B.H (-)
CN1007 :FASTON
CN3203 4P WHT :S-MICRO
SP L
SP R
CN3201 7P WHT :S-MICRO
SPEAKER OFF
CN3202 4P :MINI
POW MONI
+18V
-18V
CN1013 12P WHT :S-MICRO
H.PULSE
CN1011 6P RED :S-MICRO TO ZR BOARD CN1414
+135V
CN1015 3P BLK :S-MICRO
CN1001 3P :MINI
DF VCC
CN1010 6P WHT :S-MICRO
H DRIVE
CN1008 3P :MINI
CN1006 6P WHT :S-MICRO
STBY+7V
7V
CN1009 6P :MINI
-135V
+15V
-15V
CN1005 :FASTON
CN802 7P RED :S-MICRO TO CR BOARD CN702
H (-)
H (+)
200V
CN827 3P :MINI
CN851 6P WHT :S-MICRO
CN882 4P :MINI
G2
DF
DET
CN881 5P :MINI
135V
HV
FV
HV REG
E
E (HV)
CN904 4P WHT :S-MICRO
PROT
CN805 :FASTON
BACK COVER
CN884 6P :MINI
ABL TO FBT
ABL TO YCJ
ABL TO +B
CN885 2P :LARGE
R983
CN886 2P :LARGE
R988
CN6004 3P BLK :S-MICRO
GND (ANT)
CN6012 4P :MINI
AUDIO+
AUDIO-
CN6009 4P BLK :S-MICRO
CN6010 6P :MINI
CN6013 3P :MINI
CN6008 6P WHT :S-MICRO
ST7V
PORT
+7V
CN6011 5P :MINI
CN6003 :FASTON
AC (W)
OUT


CN3005 4P WHT-L :S-MICRO TO B BOARD CN205
HP R IN
MUTE
GND
HP L IN
CN3002 8P BLK-L :S-MICRO TO B BOARD CN203
A.LED
B.LED
RESP
STBY +5V
KEY 1
KEY 2
GND
SIRCS
L
BOX
R
BOX
AU GND
SP L IN
AU GND
SP R IN
GND
PIP-V
9V
9V
CN203 8P BLK :S-MICRO
A LED
B LED
RESP
STBY+5V
KEY1
KEY2
GND
SIRCS
CN205 4P WHT :S-MICRO
HP R IN
MUTE
GND
HP L IN
CN6 1P :TAB
CN206 7P WHT :S-MICRO
L
GND
R
GND
A.MUTE
SP-OFF
VAR MUTE
GND
L
GND
R
GND
A.MUTE
SPEAKER OFF
VAR MUTE
CN3202 4P :MINI
POW MONI
+18V
GND
-18V
CN3201 7P WHT :S-MICRO
CN1013 12P WHT :S-MICRO
V.PARA
V.PROT
H.PULSE
H.PARA
GND
V.BLK
PROT
GND
S.DAT
S.CLK
GND
ABL
A
CN1009 6P MINI
GND
+15V
-15V
CN1005 :FASTON
HB
CN3062 5B3P WHT :VH TO G BOARD CN6007
CN3061 4B2P WHT :VH TO G BOARD CN6006
AC (W) OUT
NC
NC
AC (L) OUT
AC (W) IN
NC
AC (L) IN
GND (ANT)
GND (ANT)
GND (ANT)
CN6004 3P BLK :S-MICRO
CN6007 5B3P :VH
CN6006 4B2P :VH
CN6005 2P
POW MONI
AUDIO+
GND
AUDIO-
CN6012 4P :MINI
+15V
GND
GND
-15V
CN6009 4P BLK :S-MICRO
+135V
GND
-135V
GND
+15V
-15V
CN6010 6P :MINI
G
+12V
NC
GND
CN6013 3P :MINI
ST7V
GND
P.CONT
PORT
GND
+7V
CN6008 6P WHT :S-MICRO
135V
GND
+15V
GND
-15V
CN6011 5P :MINI
CN6003 :FASTON
CN6002 :FASTON
CN6001 :FASTON
G SHIELD CHASSIS

## 6-3. CIRCUIT BOARDS LOCATION


HA
CG
ZG
CR
ZR
B2
(French only)
HB
B
D
CB
ZB
G
E
U
A

## 6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms.
  kΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which dose not have one for rating electrical power, is as follows.
  Pitch : 5mm
  Rating electrical power : $^1/_4$W (CHIP : $^1/_{10}$W)
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⏚ : earth-chassis.
- The components identified by ☒ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◪ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ☒ and repeat the adjustment until the specified value is achieved. (Refer to R808,R809,R983 and R988 adjustment on Page 40 – 42.)
- When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced (◪) | Adjustment (☒) |
|---|---|
| HVBlock<br>C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R883, R954, R955, R984, R988, R991, R995, R996,T801(FBT), T803<br>.............E BOARD | HV HOLD-DOWN<br>(R809, R988) |
| HV Block,<br>C918, C930, C934, C980, D902, D920, D925, Q909, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R998<br>.......E BOARD | HV Regulator<br>(R808, R983) |

- As to the voltage volue shown
  see the another list
- Readings are taken with a co
- Readings are taken with a 10
- Voltages are dc with respect t
- Voltage variations may be not
- All voltages are in V.
  * : Measurement impossibility
- V : B+line.
- V : B-line.
  (Actual measured value may
- ⇨ : signal path.
- Circled numbers are wavefor

Reference information

| | | |
|---|---|---|
| RESISTOR | : RN | METAL |
| | : RC | SOLID |
| | : FPRD | NONFL |
| | : FUSE | NONFL |
| | : RW | NONFL |
| | : RS | NONFL |
| | : RB | NONFL |
| | : ※ | ADJUS |
| COIL | : LF-8L | MICRO |
| CAPACITOR | : TA | TANTA |
| | : PS | STYRO |
| | : PP | POLYP |
| | : PT | MYLAR |
| | : MPS | METAL |
| | : MPP | METAL |
| | : ALB | BIPOL |
| | : ALT | HIGH T |
| | : ALR | HIGH F |

**Note: The symbol ▭**

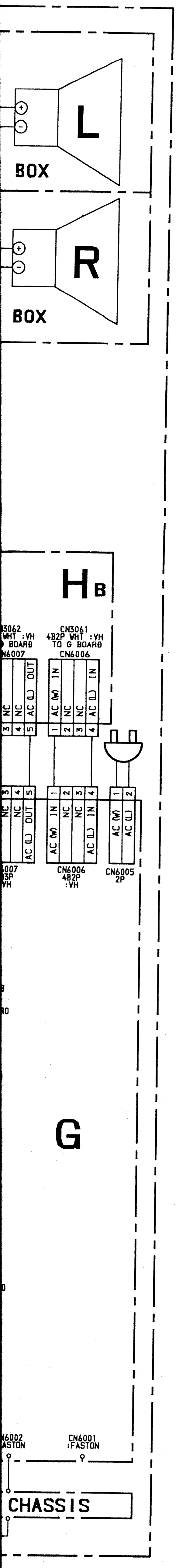
**The components id are critical for safet specified.**

**The symbol ▭ Replace only with f**

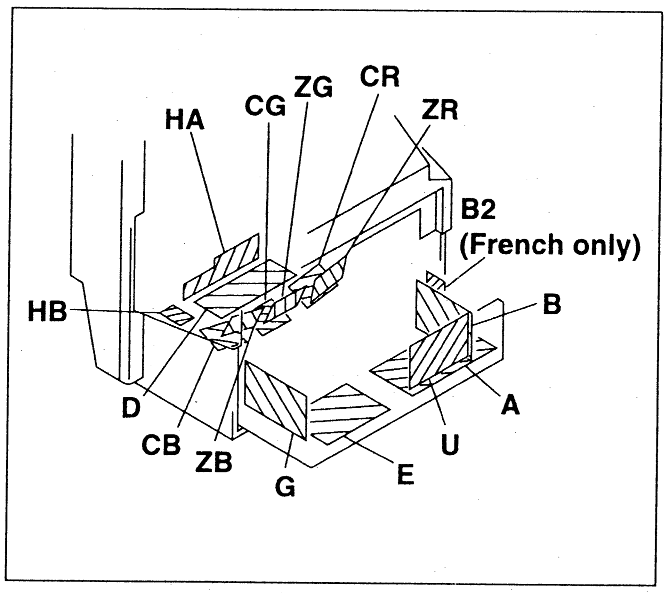
**Note: The symbol ▭**

**The components id are critical for safet specified.**

**The symbol ▭ Replace only with f**



## 6-3. CIRCUIT BOARDS LOCATION



## 6-4. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms.
  kΩ=1000Ω, MΩ=1000kΩ
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

  Pitch : 5mm
  Rating electrical power : $^{1}/_{4}$ W (CHIP : $^{1}/_{10}$W)
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- △ : internal component.
- ▭ : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ⏚ : earth-chassis.
- The components identified by ⊠ in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation.
  Should replacement be required, replace only with the value originally used.
- When replacing components identified by ◩ , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by ⊠ and repeat the adjustment until the specified value is achieved. (Refer to R808,R809,R983 and R988 adjustment on Page 40 – 42.)
- When replacing the part in below table, be sure to perform the related adjustment.

| Part replaced (◩ ) | Adjustment (⊠ ) |
|---|---|
| HVBlock<br>C818, D804, D806, D809, D909, D912, Q915, R809, R855, R856, R857, R858, R883, R954, R955, R984, R988, R991, R995, R996,T801(FBT), T803<br>.............E BOARD | HV HOLD-DOWN<br>(R809, R988) |
| HV Block,<br>C918, C930, C934, C980, D902, D920, D925, Q909, R808, R851, R929, R936, R939, R942, R944, R945, R946, R947, R950, R960, R965, R967, R971, R975, R976, R982, R983, R985, R998<br>.......E BOARD | HV Regulator<br>(R808, R983) |

- As to the voltage volue shown by the semiconductors on the Shematic Diagram see the another list
- Readings are taken with a color-bar signal input.
- Readings are taken with a 10MΩ digital multimeter.
- Voltages are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
  ∗ : Measurement impossibillity.
- ▭V : B+line.
- ▭V : B-line.
  (Actual measured value may be different)
- ⇨ : signal path.
- Circled numbers are waveform references.

Reference information

| | | |
|---|---|---|
| RESISTOR | : RN | METAL FILM |
| | : RC | SOLID |
| | : FPRD | NONFLAMMABLE CARBON |
| | : FUSE | NONFLAMMABLE FUSIBLE |
| | : RW | NONFLAMMABLE WIREWOUND |
| | : RS | NONFLAMMABLE METAL OXIDE |
| | : RB | NONFLAMMABLE CEMENT |
| | : ※ | ADJUSTMENT RESISTOR |
| COIL | : LF-8L | MICRO INDUCTOR |
| CAPACITOR | : TA | TANTALUM |
| | : PS | STYROL |
| | : PP | POLYPROPYLENE |
| | : PT | MYLAR |
| | : MPS | METALIZED POLYESTER |
| | : MPP | METALIZED POLYPROPYLENE |
| | : ALB | BIPOLAR |
| | : ALT | HIGH TEMPERATURE |
| | : ALR | HIGH RIPPLE |

**Note: The symbol ▭ display is on the component side.**

**The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

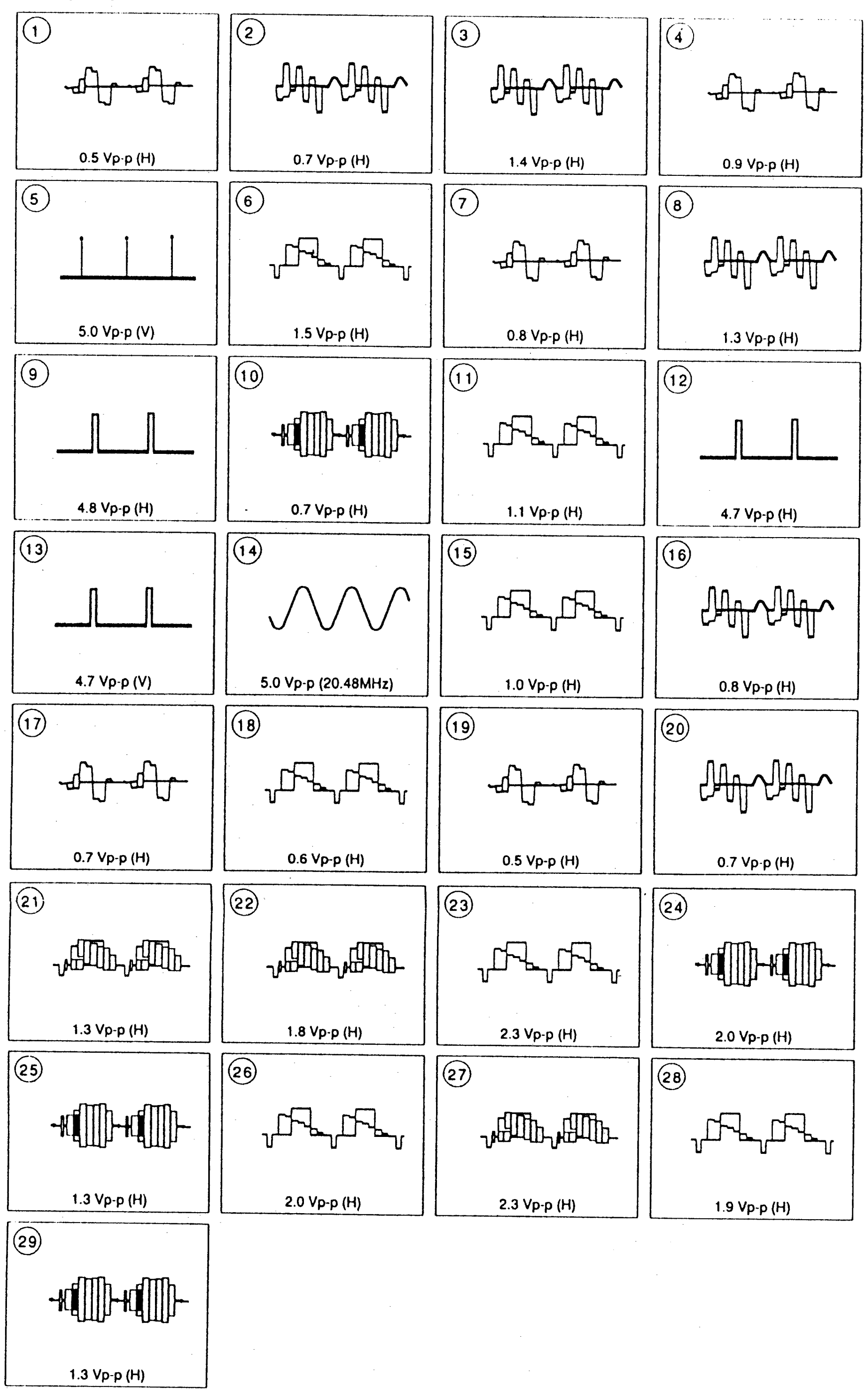
**The symbol ▭ indicate fast operating fuse. Replace only with fuse of same rating as maked.**

**Note: The symbol ▭ display is on the component side.**

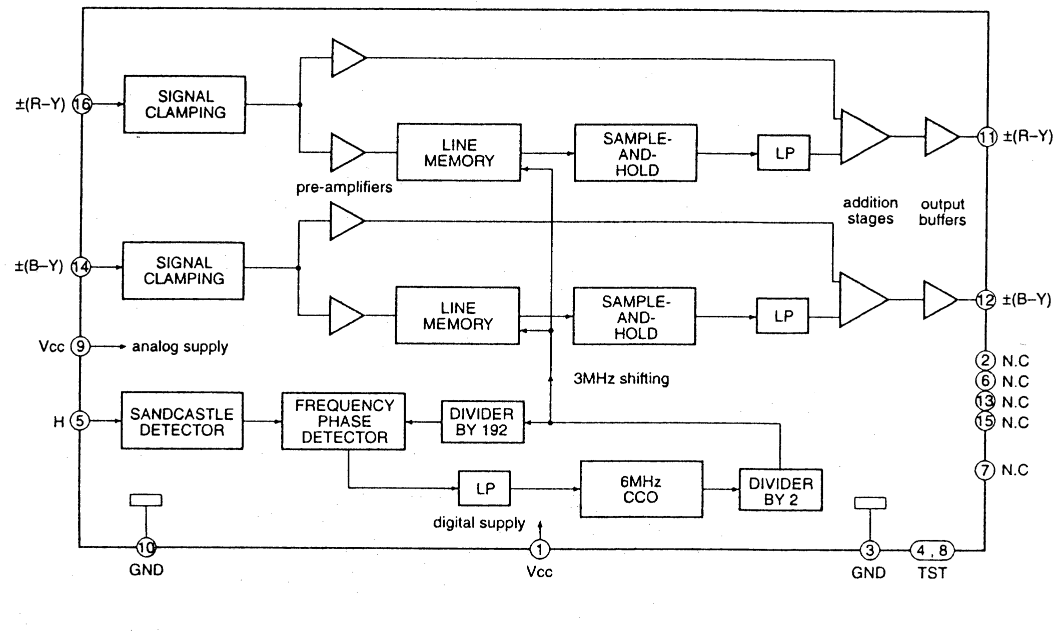
**The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.**

**The symbol ▭ indicate fast operating fuse. Replace only with fuse of same rating as maked.**

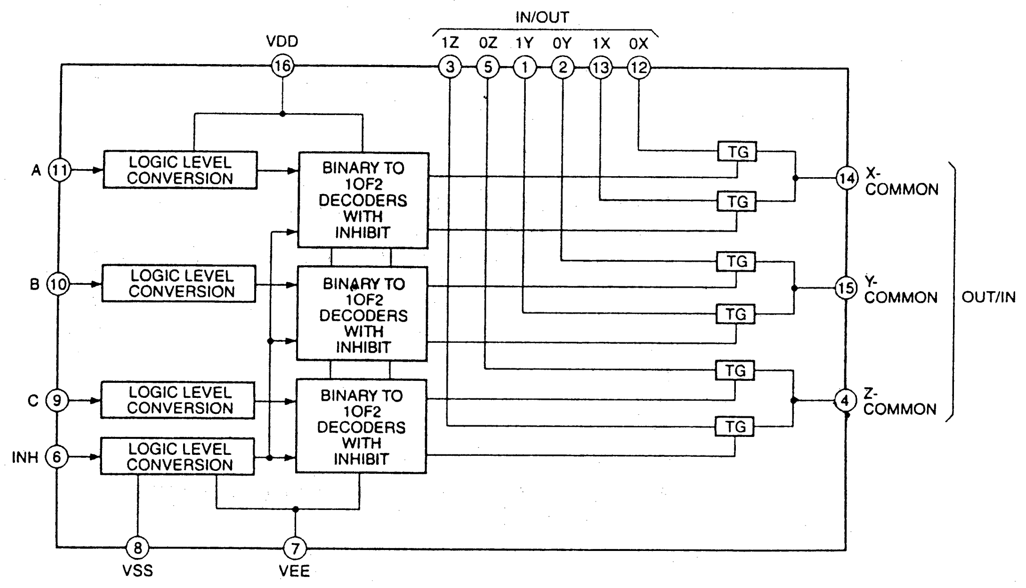
## • B (1/3) BOARD WAVEFORMS


①
0.5 Vp-p (H)
②
0.7 Vp-p (H)
③
1.4 Vp-p (H)
④
0.9 Vp-p (H)
⑤
5.0 Vp-p (V)
⑥
1.5 Vp-p (H)
⑦
0.8 Vp-p (H)
⑧
1.3 Vp-p (H)
⑨
4.8 Vp-p (H)
⑩
0.7 Vp-p (H)
⑪
1.1 Vp-p (H)
⑫
4.7 Vp-p (H)
⑬
4.7 Vp-p (V)
⑭
5.0 Vp-p (20.48MHz)
⑮
1.0 Vp-p (H)
⑯
0.8 Vp-p (H)
⑰
0.7 Vp-p (H)
⑱
0.6 Vp-p (H)
⑲
0.5 Vp-p (H)
⑳
0.7 Vp-p (H)
㉑
1.3 Vp-p (H)
㉒
1.8 Vp-p (H)
㉓
2.3 Vp-p (H)
㉔
2.0 Vp-p (H)
㉕
1.3 Vp-p (H)
㉖
2.0 Vp-p (H)
㉗
2.3 Vp-p (H)
㉘
1.9 Vp-p (H)
㉙
1.3 Vp-p (H)

## B (1/3) BOARD : IC5, 10 TDA4665T


±(R–Y) ⑯
SIGNAL CLAMPING
pre-amplifiers
LINE MEMORY
SAMPLE-AND-HOLD
LP
addition stages
output buffers
⑪ ±(R–Y)
±(B–Y) ⑭
SIGNAL CLAMPING
LINE MEMORY
SAMPLE-AND-HOLD
LP
⑫ ±(B–Y)
Vcc ⑨ analog supply
3MHz shifting
② N.C
⑥ N.C
⑬ N.C
⑮ N.C
H ⑤
SANDCASTLE DETECTOR
FREQUENCY PHASE DETECTOR
DIVIDER BY 192
LP
6MHz CCO
DIVIDER BY 2
⑦ N.C
digital supply
⑩ GND
① Vcc
③ GND
④,⑧ TST

## B (1/3) BOARD : IC9 MC14053BF-T2


IN/OUT
1Z 0Z 1Y 0Y 1X 0X
VDD ⑯
③ ⑤ ① ② ⑬ ⑫
A ⑪
LOGIC LEVEL CONVERSION
BINARY TO 1OF2 DECODERS WITH INHIBIT
TG
⑭ X-COMMON
B ⑩
LOGIC LEVEL CONVERSION
BINARY TO 1OF2 DECODERS WITH INHIBIT
⑮ Y-COMMON
OUT/IN
C ⑨
LOGIC LEVEL CONVERSION
BINARY TO 1OF2 DECODERS WITH INHIBIT
④ Z-COMMON
INH ⑥
LOGIC LEVEL CONVERSION
⑧ VSS
⑦ VEE

## B(1/3) BOARD IC VOLTAGE LIST

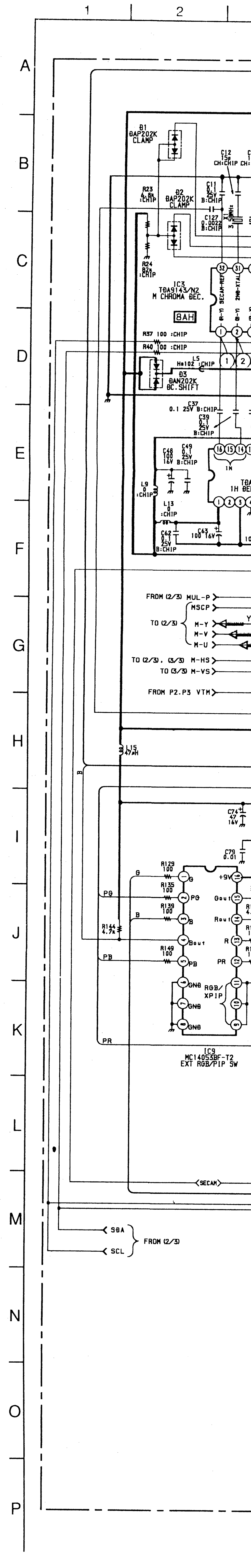
| | | |
|---|---|---|
| IC1 | 1 | GND |
| | 2 | GND |
| | 3 | GND |
| | 4 | GND |
| | 5 | GND |
| | 6 | GND |
| | 7 | GND |
| | 8 | GND |
| | 9 | GND |
| | 10 | GND |
| | 11 | 2.4 |
| | 12 | GND |
| | 13 | 4.9 |
| | 14 | 2.4 |
| | 15 | 2.4 |
| | 16 | 2.4 |
| | 17 | 4.9 |
| | 18 | 4.9 |
| | 19 | GND |
| | 20 | 0 |
| | 21 | 1.1 |
| | 22 | 0.6 |
| | 23 | GND |
| | 24 | GND |
| | 25 | 1.4 |
| | 26 | 4.9 |
| | 27 | 2.6 |
| | 28 | 4.9 |
| | 29 | 4.9 |
| | 30 | GND |
| | 31 | 1.3 |
| | 32 | 3.0 |
| | 33 | 3.2 |
| | 34 | 3.2 |
| | 35 | GND |
| | 36 | 1.1 |
| | 37 | 4.9 |
| | 38 | GND |
| | 39 | 1.6 |
| | 40 | 3.0 |
| | 41 | 3.2 |
| | 42 | 3.2 |
| | 43 | GND |
| | 52 | GND |
| | 53 | 4.9 |
| | 56 | 4.9 |
| | 67 | 4.9 |
| | 68 | 4.9 |
| | 69 | 5.0 |
| | 70 | 5.0 |
| | 71 | GND |
| | 72 | GND |
| | 73 | 4.9 |
| | 74 | 4.9 |
| | 75 | GND |
| | 76 | GND |
| | 77 | GND |
| | 78 | GND |
| | 79 | GND |
| | 80 | GND |
| IC2 | 1 | 2.6 |
| | 2 | 2.0 |
| | 3 | GND |
| | 4 | 3.1 |
| | 5 | 3.2 |
| | 6 | 4.9 |
| | 7 | 3.5 |
| IC3 | 1 | 2.4 |
| | 2 | 2.3 |
| | 3 | 2.7 |
| | 4 | 2.7 |
| | 5 | 4.9 |
| | 6 | 4.9 |
| | 7 | 8.6 |
| | 8 | 5.4 |
| | 9 | GND |
| | 10 | 0.8 |
| | 11 | 0 |
| | 12 | 3.5 |
| | 13 | 2.8 |
| | 14 | 2.8 |
| | 15 | 5.0 |
| | 16 | 0.6 |
| | 17 | 0.4 |
| | 18 | 0.4 |
| | 19 | 5.3 |
| | 20 | 5.3 |
| | 21 | 5.3 |
| | 22 | 3.2 |
| | 23 | 4.5 |
| | 24 | 4.4 |
| | 25 | 0.1 |
| | 26 | 4.1 |
| | 27 | GND |
| | 28 | 3.9 |
| | 29 | 5.2 |
| | 30 | 2.9 |
| | 31 | 3.0 |
| | 32 | 0 |
| IC4 | 1 | 4.6 |
| | 2 | 3.6 |
| | 3 | 4.6 |
| | 4 | GND |
| | 5 | 4.0 |
| | 6 | 9.4 |
| | 7 | 3.9 |
| | 8 | GND |
| IC5 | 1 | 5.3 |
| | 3 | GND |
| | 4 | GND |
| | 5 | 0.8 |
| | 8 | GND |
| | 9 | 5.2 |
| | 10 | GND |
| | 11 | 3.3 |
| | 12 | 3.3 |
| | 14 | 1.6 |
| | 16 | 1.6 |
| IC6 | 1 | 4.4 |
| | 2 | 0.4 |
| | 3 | 5.2 |
| | 4 | 2.1 |
| | 5 | 0 |
| | 6 | 0 |
| | 7 | 0 |
| | 8 | GND |
| | 9 | 0 |
| | 10 | 0.4 |
| | 11 | 0.4 |
| | 12 | 2.1 |
| | 13 | 2.6 |
| | 14 | GND |
| | 15 | 4.9 |
| | 16 | 5.0 |
| | 17 | 2.8 |
| | 18 | 0.9 |
| | 19 | 0.9 |
| | 20 | 1.0 |
| | 21 | 0.9 |
| | 22 | 2.0 |
| | 23 | 1.9 |
| | 24 | 1.5 |
| | 25 | 0.7 |
| | 26 | 1.5 |
| | 27 | 1.5 |
| | 28 | 5.2 |
| IC7 | 1 | 4.4 |
| | 2 | 1.5 |
| | 3 | 1.5 |
| | 4 | 0.7 |
| | 5 | 1.5 |
| | 6 | 1.9 |
| | 7 | 2.0 |
| | 8 | 0.9 |
| | 9 | 1.0 |
| | 10 | 0.9 |
| | 11 | 0.9 |
| | 12 | 2.8 |
| | 13 | GND |
| | 15 | 4.8 |
| | 16 | GND |
| | 17 | 2.3 |
| | 18 | GND |
| | 19 | 2.8 |
| | 20 | 1.2 |
| | 21 | 2.8 |
| | 22 | 2.0 |
| | 23 | 2.6 |
| | 24 | 5.2 |
| | 25 | GND |
| | 26 | GND |
| | 27 | GND |
| | 28 | 5.2 |
| IC8 | 1 | 2.7 |
| | 2 | 2.3 |
| | 3 | 2.3 |
| | 4 | 4.9 |
| | 5 | 4.9 |
| | 6 | 0.7 |
| | 7 | 8.5 |
| | 8 | 5.3 |
| | 9 | GND |
| | 10 | 0.4 |
| | 11 | 7.7 |
| | 12 | 4.1 |
| | 13 | GND |
| | 14 | 2.3 |
| | 15 | GND |
| | 16 | GND |
| | 18 | 3.9 |
| | 19 | 0.4 |
| | 21 | 4.3 |
| | 25 | 8.5 |
| | 26 | 4.1 |
| | 27 | GND |
| | 28 | 3.7 |
| | 29 | 5.0 |
| | 30 | 2.5 |
| | 31 | 1.7 |
| | 32 | 0 |
| IC9 | 1 | 0 |
| | 2 | 0.9 |
| | 3 | 0 |
| | 4 | 1.1 |
| | 5 | 0.9 |
| | 6 | GND |
| | 7 | GND |
| | 8 | GND |
| | 9 | 2.1 |
| | 10 | 2.1 |
| | 11 | 2.1 |
| | 12 | 0.9 |
| | 13 | 0 |
| | 14 | 1.1 |
| | 15 | 1.1 |
| | 16 | 9.4 |
| IC10 | 1 | 5.2 |
| | 3 | GND |
| | 4 | GND |
| | 5 | 0.7 |
| | 8 | GND |
| | 9 | 5.2 |
| | 10 | GND |
| | 11 | 3.4 |
| | 12 | 3.3 |
| | 14 | 1.6 |
| | 16 | 1.6 |

All voltages are in V.
Pin numbers which are not
described are not used.

## B(1/3) BOARD TRANSISTOR VOLTAGE LIST

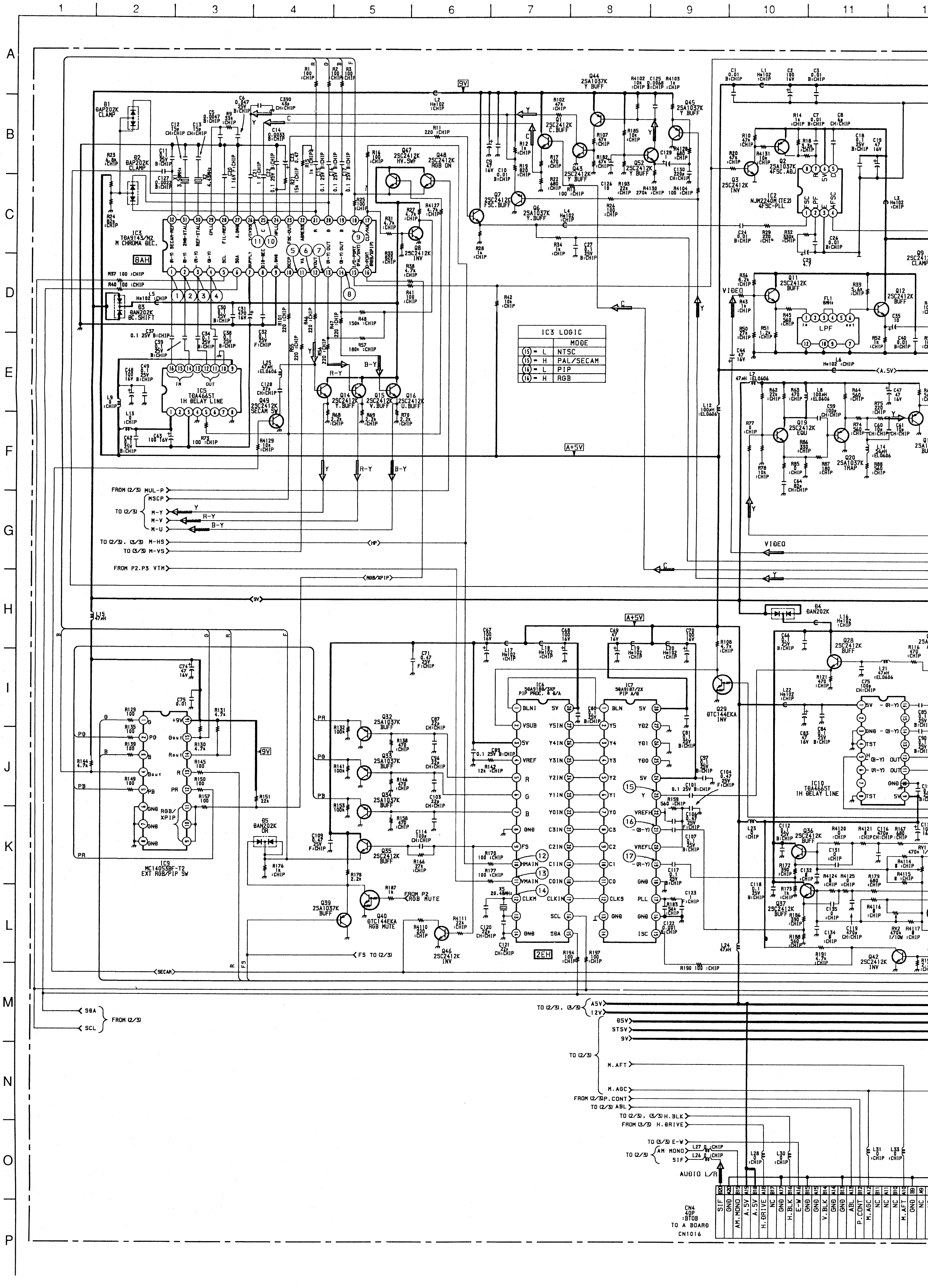
| | B | C | E |
|---|---|---|---|
| Q1 | 5.4 | 9.4 | 4.8 |
| Q2 | 4.0 | 4.8 | 4.9 |
| Q3 | 0.7 | 4.0 | GND |
| Q6 | 5.4 | GND | 6.0 |
| Q7 | 4.5 | 9.4 | 3.9 |
| Q8 | 0 | 7.8 | GND |
| Q9 | 1.2 | 4.9 | 1.4 |
| Q10 | 0.6 | GND | 1.2 |
| Q11 | 3.7 | 4.9 | 3.1 |
| Q12 | 3.3 | 4.9 | 2.6 |
| Q13 | 0 | 2.5 | GND |
| Q14 | 3.5 | 8.6 | 2.9 |
| Q15 | 2.9 | 8.6 | 2.2 |
| Q16 | 2.8 | 8.6 | 2.2 |
| Q17 | 3.7 | 0 | GND |
| Q18 | 2.9 | GND | 3.6 |
| Q19 | 2.9 | 9.3 | 2.2 |
| Q20 | 2.2 | GND | 2.9 |
| Q22 | 2.5 | 3.2 | 1.8 |
| Q23 | 1.6 | GND | 2.3 |
| Q24 | 1.3 | GND | 1.9 |
| Q25 | 2.2 | GND | 2.8 |
| Q26 | 8.0 | 3.3 | 8.5 |
| Q27 | 2.7 | 8.0 | 2.1 |
| Q28 | 3.3 | 8.5 | 2.5 |
| Q29 | 4.6 | 0.4 | GND |
| Q30 | 2.5 | GND | 3.1 |
| Q32 | 0 | GND | 0.8 |
| Q33 | 0 | GND | 0.7 |
| Q34 | 0 | GND | 0.7 |
| Q35 | 0 | 5.2 | 0.4 |
| Q36 | 3.4 | 8.5 | 2.7 |
| Q37 | 3.4 | 8.5 | 2.7 |
| Q38 | 1.8 | 8.5 | 1.9 |
| Q39 | 0 | GND | 0.8 |
| Q40 | 0 | 0.8 | GND |
| Q41 | 0 | 5.3 | GND |
| Q42 | 0.2 | 4.8 | GND |

All voltages are in V.


1
2
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
D1 DAP202K CLAMP
C12 15p CH:CHIP
R23 6.8k :CHIP
D2 DAP202K CLAMP
C11 0.1 25V B:CHIP
C127 0.0022 B:CHIP
X1 3.58MHz
R24 82k :CHIP
IC3 TDA9143/N2 M CHROMA DEC.
8AH
SECAM-REF
2NB-XTAL
R37 100 :CHIP
R40 100 :CHIP
L5 H=102 :CHIP
D3 DAN202K DC.SHIFT
C37 0.1 25V B:CHIP
C39 0.1 25V B:CHIP
C48 100 16V
C49 0.1 25V B:CHIP
IN
1H DEL
L9 0 :CHIP
L13 0 :CHIP
C62 0.1 25V B:CHIP
C63 100 16V
FROM (2/3) MUL-P
MSCP
TO (2/3)
M-Y
M-V
M-U
TO (2/3), (3/3) M-HS
TO (3/3) M-VS
FROM P2.P3 VTM
L15 47μH
C74 47 16V
C79 0.01
R129 100
R135 100
R139 100
R144 4.7k
R149 100
G
PG
B
Bout
PB
GND
+9V
Gout
Rout
R
PR
RGB/XPIP
IC9 MC14053BF-T2 EXT RGB/PIP SW
SECAM
SDA
SCL
FROM (2/3)

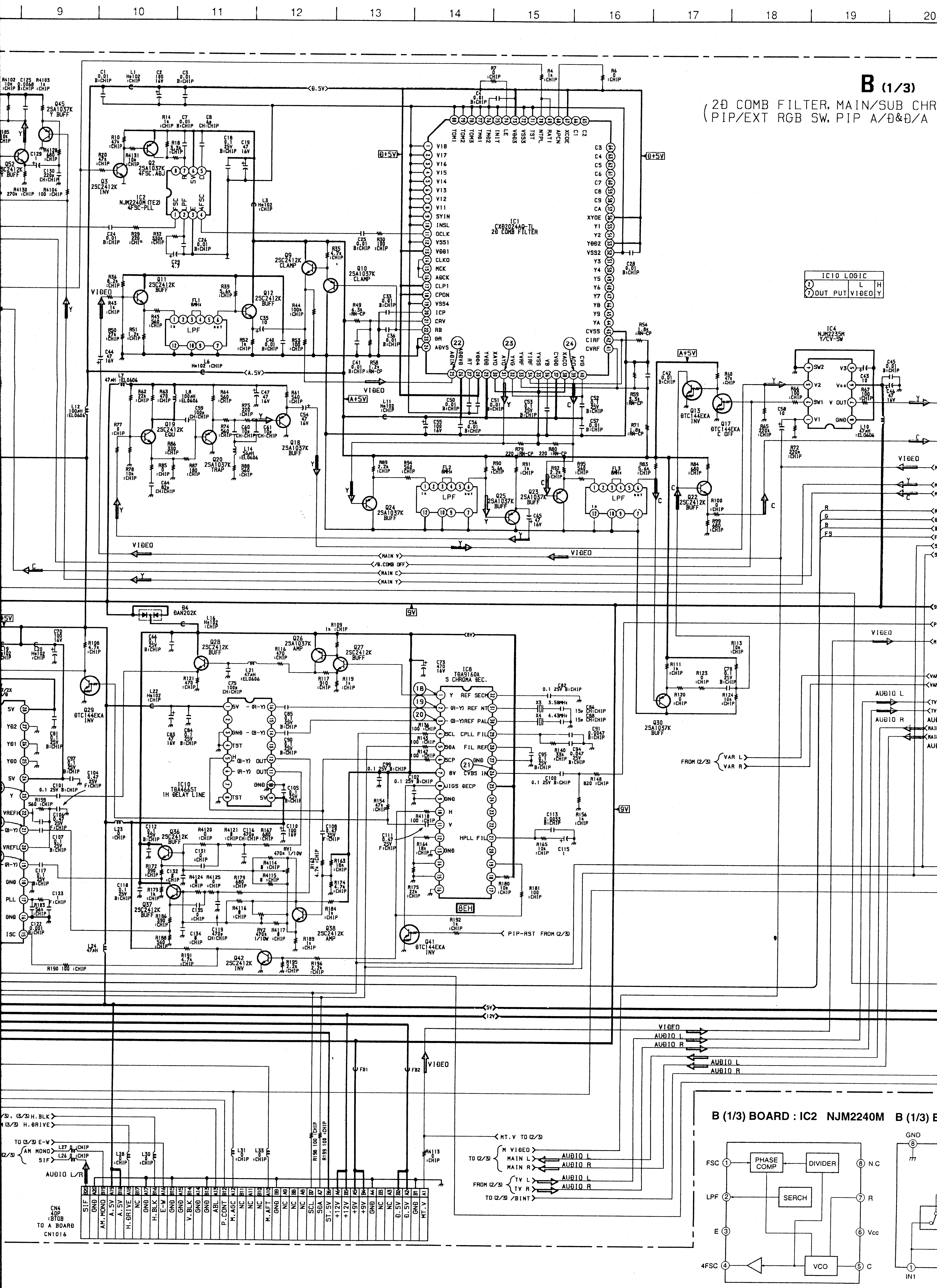
**Schematic diagrams**

B (1/3) B (2/3) board ➡


IC3 TDA9143/N2 M CHROMA DEC.
IC5 TDA4665T 1H DELAY LINE
IC9 MC14053BF-T2 EXT RGB/PIP SW
IC6 SDA9188/3XP PIP PROC. & D/A
IC7 SDA9187/2X PIP A/D
IC2 NJM2240M (TE2) 4FSC-PLL
IC10 TDA4665T 1H DELAY LINE
D1 DAP202K CLAMP
D2 DAP202K CLAMP
D3 DAN202K DC.SHIFT
D4 DAN202K
D5 DAN202K OR
Q1 2SC2412K C.BUFF
Q2 2SA1037K 4FSC.ADJ
Q3 2SC2412K INV
Q6 2SA1037K Y.BUFF
Q7 2SC2412K FSC.BUFF
Q8 2SC2412K INV
Q11 2SC2412K BUFF
Q12 2SC2412K BUFF
Q14 2SC2412K Y.BUFF
Q15 2SC2412K V.BUFF
Q16 2SC2412K U.BUFF
Q19 2SC2412K EQU
Q20 2SA1037K TRAP
Q28 2SC2412K BUFF
Q29 DTC144EKA INV
Q32 2SA1037K BUFF
Q33 2SA1037K BUFF
Q34 2SA1037K BUFF
Q35 2SC2412K BUFF
Q36 2SC2412K BUFF
Q37 2SC2412K BUFF
Q39 2SA1037K BUFF
Q40 DTC144EKA RGB MUTE
Q42 2SC2412K INV
Q43 2SC2412K Y BUFF
Q44 2SA1037K Y BUFF
Q45 2SA1037K Y BUFF
Q46 2SC2412K INV
Q47 2SC2412K HV.SW
Q48 2SC2412K RGB ON
Q49 2SC2412K SECAM SW
Q52 2SC2412K Y BUFF
FL1 LPF
FROM (2/3) MUL-P
MSCP
TO (2/3) M-Y
M-V
M-U
TO (2/3), (3/3) M-HS
TO (3/3) M-VS
FROM P2.P3 VTM
FROM P2 RGB MUTE
FS TO (2/3)
SDA
SCL
FROM (2/3)
TO (2/3), (3/3) A5V
12V
D5V
ST5V
9V
TO (2/3)
M.AFT
M.AGC
FROM (2/3) P.CONT
TO (2/3) ABL
TO (2/3), (3/3) H.BLK
FROM (3/3) H.DRIVE
TO (3/3) E-W
TO (2/3) AM MONO
SIF
AUDIO L/R
CN4 40P :BTOB TO A BOARD CN1016
SIF GND AM.MONO A.5V H.DRIVE NC GND H.BLK E-W GND GND V.BLK GND GND ABL P.CONT M.AGC NC NC M.AFT GND NC
VIDEO
9V
A+5V
8AH
2EH

**IC3 LOGIC**

| | MODE |
|---|---|
| (15) = L | NTSC |
| (15) = H | PAL/SECAM |
| (16) = L | PIP |
| (16) = H | RGB |


9
10
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19
20
IC1 CXD2024AQ-TL 2D COMB FILTER
IC2 NJM2240M (TE2) 4FSC-PLL
IC4 NJM2235M Y/CV-SW
IC8 TDA9160A S CHROMA DEC.
IC10 TDA4665T 1H DELAY LINE
IC10 LOGIC
② L H
⑦ OUT PUT VIDEO Y
FL1 8MHz LPF
FL2 8MHz LPF
FL3 8MHz LPF
D4 DAN202K
VIDEO
AUDIO L
AUDIO R
PIP-RST FROM (2/3)
MT.V TO (2/3)
M VIDEO
MAIN L
MAIN R
TV L
TV R
TO (2/3) /BINT
FROM (2/3) VAR L VAR R
CN4 40P :BT0B TO A BOARD CN1016
FSC
LPF
E
4FSC
PHASE COMP
DIVIDER
SERCH
VCO
N.C
R
Vcc
C
GND
IN1

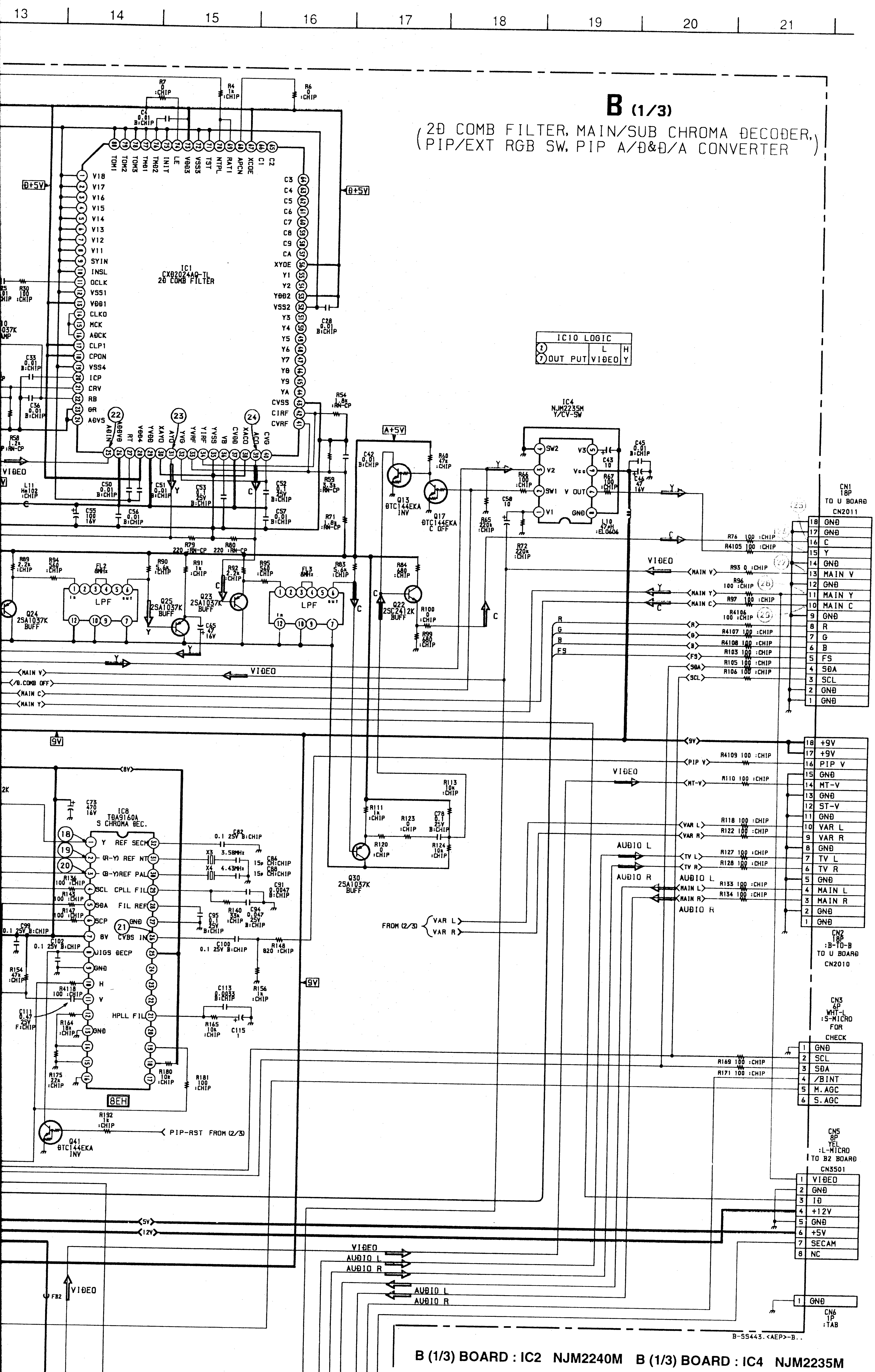
B (1/3)

(2D COMB FILTER, MAIN/SUB CHR
(PIP/EXT RGB SW, PIP A/D&D/A

B (1/3) BOARD : IC2 NJM2240M B (1/3) B

## B (1/3)

(2D COMB FILTER, MAIN/SUB CHROMA DECODER, PIP/EXT RGB SW, PIP A/D&D/A CONVERTER)



13
14
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19
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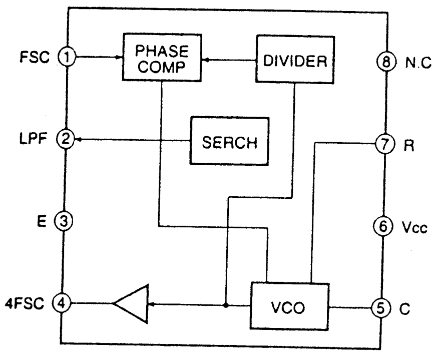
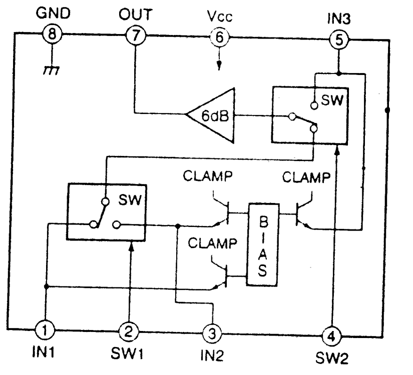
21
IC1
CXD2024AQ-TL
2D COMB FILTER
D+5V
IC10 LOGIC
2 L H
7 OUT PUT VIDEO Y
IC4
NJM2235M
Y/CV-SW
A+5V
Q13
DTC144EKA
INV
Q17
DTC144EKA
C OFF
Q22
2SC2412K
BUFF
Q23
2SA1037K
BUFF
Q24
2SA1037K
BUFF
Q25
2SA1037K
BUFF
Q30
2SA1037K
BUFF
Q41
DTC144EKA
INV
IC8
TDA9160A
S CHROMA DEC.
FL2
FL3
LPF
CN1
18P
TO U BOARD
CN2011
GND
C
Y
MAIN V
MAIN Y
MAIN C
R
G
B
FS
SDA
SCL
+9V
PIP V
MT-V
ST-V
VAR L
VAR R
TV L
TV R
MAIN L
MAIN R
CN2
18P
:B-TO-B
TO U BOARD
CN2010
CN3
6P
WHT-L
:S-MICRO
FOR
CHECK
/BINT
M.AGC
S.AGC
CN5
8P
YEL
:L-MICRO
TO B2 BOARD
CN3501
VIDEO
ID
+12V
+5V
SECAM
NC
CN6
1P
:TAB
VIDEO
AUDIO L
AUDIO R
FROM (2/3) VAR L VAR R
PIP-RST FROM (2/3)
MT.V TO (2/3)
TO (2/3) M VIDEO MAIN L MAIN R
FROM (2/3) TV L TV R
TO (2/3) /BINT
9V
8V
5V
12V
8EH
B-SS443.<AEP>-B..

**B (1/3) BOARD : IC2 NJM2240M**

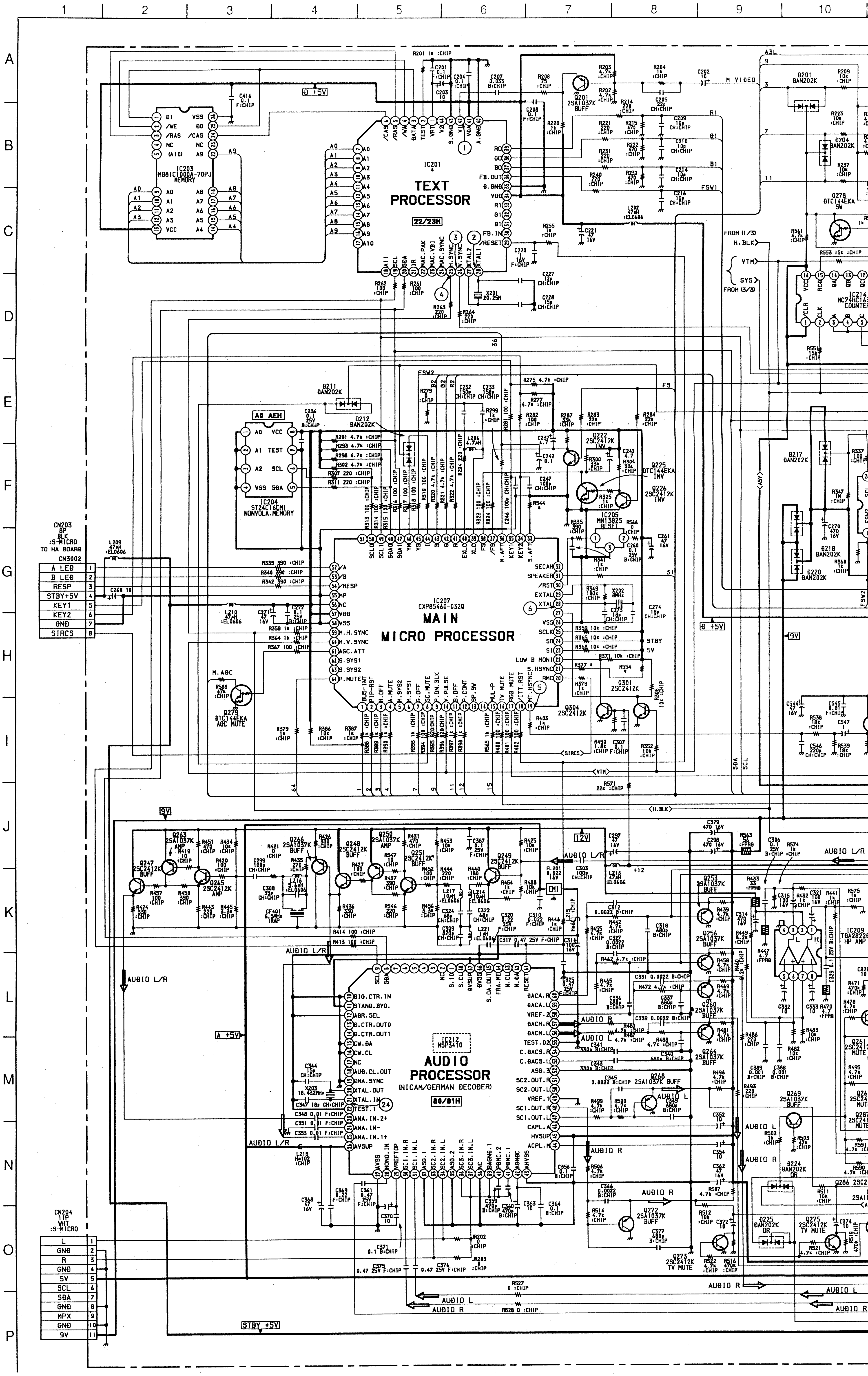


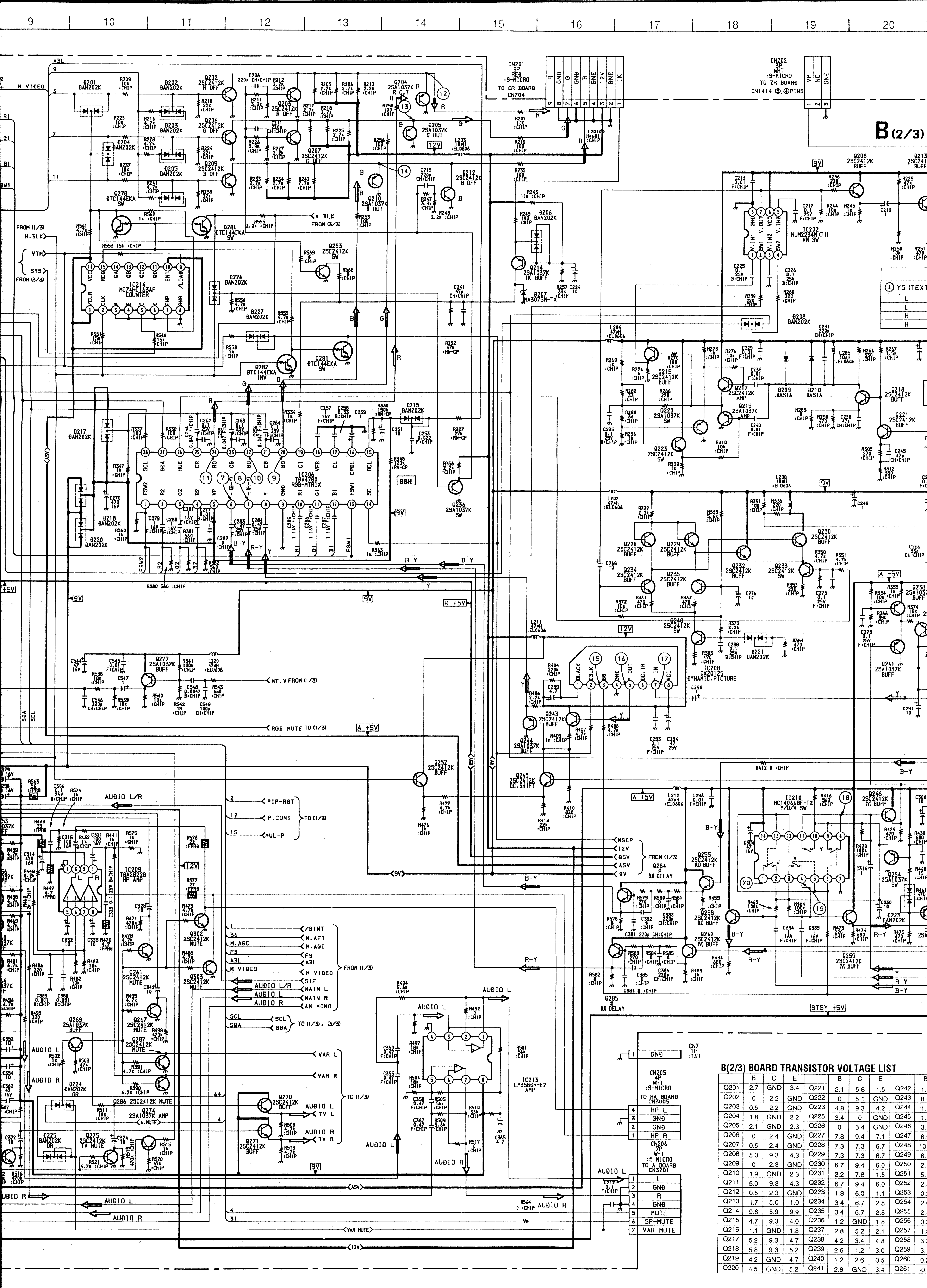
FSC 1
LPF 2
E 3
4FSC 4
PHASE COMP
DIVIDER
SERCH
VCO
8 N.C
7 R
6 Vcc
5 C

**B (1/3) BOARD : IC4 NJM2235M**



GND 8
OUT 7
Vcc 6
IN3 5
6dB
SW
SW
CLAMP
CLAMP
CLAMP
BIAS
1 IN1
2 SW1
3 IN2
4 SW2


IC201
TEXT PROCESSOR
22/23H
IC203
MB81C1000A-70PJ
MEMORY
IC204
ST24C16CM1
NONVOLA.MEMORY
A0 AEH
IC207
CXP85460-032Q
MAIN
MICRO PROCESSOR
IC205
MN13825
RESET
IC212
MSP3410
AUDIO
PROCESSOR
(NICAM/GERMAN DECODER)
80/81H
IC209
TBA2822
HP AMP
IC214
MC74HC16
COUNTER
CN203
8P
BLK
:S-MICRO
TO HA BOARD
CN3002
A LED
B LED
RESP
STBY+5V
KEY1
KEY2
GND
SIRCS
CN204
11P
WHT
:S-MICRO
L
GND
R
GND
5V
SCL
SDA
GND
MPX
GND
9V
Q201
2SA1037K
BUFF
Q222
2SC2412K
INV
Q225
DTC144EKA
INV
Q226
2SC2412K
INV
Q279
DTC144EKA
AGC MUTE
Q278
DTC144EKA
SW
Q301
2SC2412K
Q304
2SC2412K
Q263
2SA1037K
AMP
Q247
2SC2412K
BUFF
Q265
2SC2412K
AMP
Q266
2SA1037K
BUFF
Q248
2SC2412K
BUFF
Q250
2SA1037K
AMP
Q251
2SC2412K
BUFF
Q249
2SC2412K
BUFF
Q253
2SA1037K
BUFF
Q256
2SA1037K
BUFF
Q260
2SA1037K
BUFF
Q264
2SA1037K
BUFF
Q268
2SA1037K BUFF
Q269
2SA1037K
BUFF
Q272
2SA1037K
BUFF
Q273
2SC2412K
TV MUTE
Q275
2SC2412K
TV MUTE
Q261
2SC2412K
MUTE
D201
DAN202K
D204
DAN202K
D211
DAN202K
D212
DAN202K
D217
DAN202K
D218
DAN202K
D220
DAN202K
D224
DAN202K
OR
D225
DAN202K
OR
X201
20.25M
X202
8MHz
X203
18.432MHz
CF401
6.5MHz
TRAP
FL201
EMI
M VIDEO
ABL
R1
G1
B1
FSW1
FSW2
FS
H.BLK
VTM
SYS
FROM (1/3)
FROM (3/3)
D +5V
A +5V
9V
12V
STBY +5V
STBY
5V
AUDIO L/R
AUDIO L
AUDIO R
M.AGC
SIRCS
SDA
SCL
+12
1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P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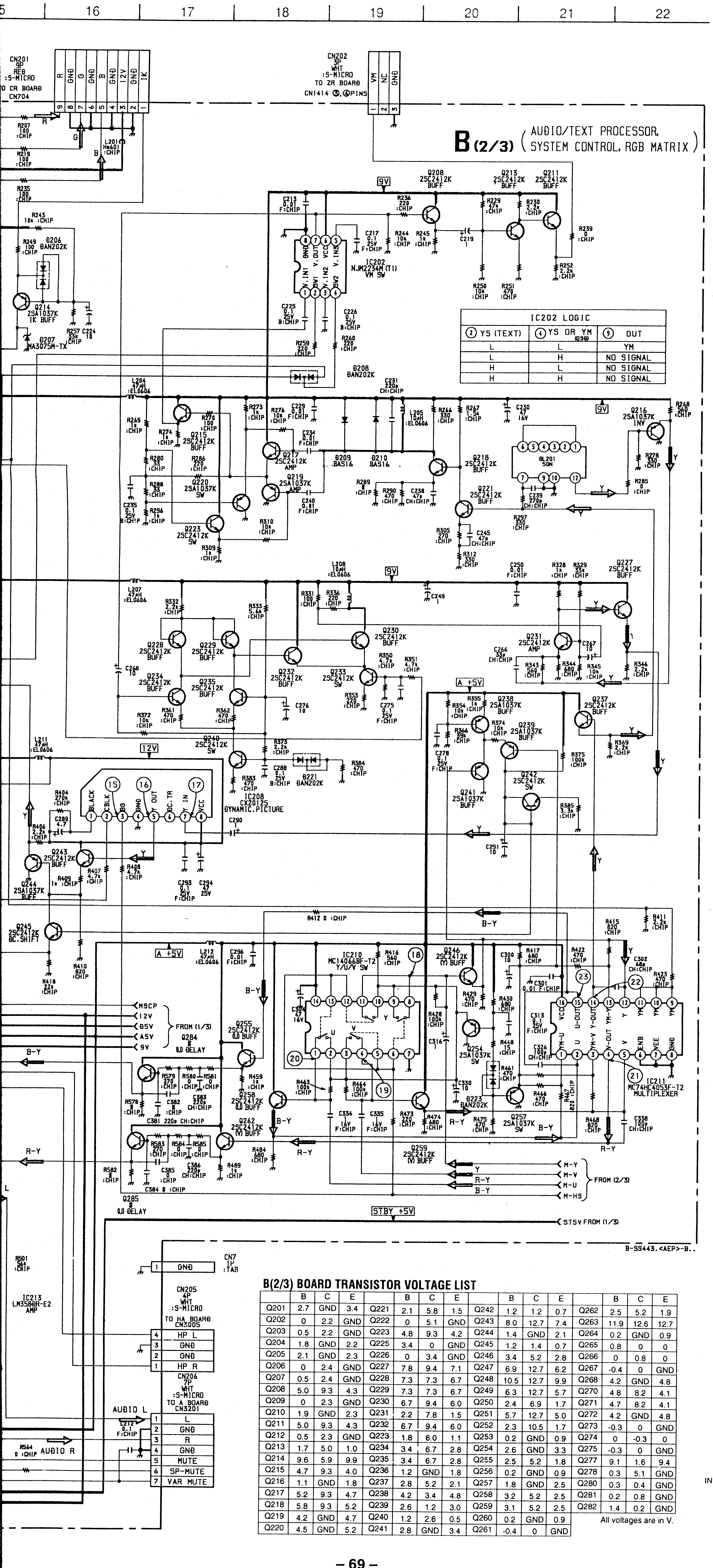
20
B(2/3)
IC214 MC74HC163AF COUNTER
IC206 TDA4780 RGB-MTRIX
IC202 NJM2234M(T1) VM SW
IC208 CX20125 DYNAMIC.PICTURE
IC209 TDA2822B HP AMP
IC210 MC14066BF-T2 Y/U/V SW
IC213 LM3580A-E2 AMP
CN201 9P RED :S-MICRO TO CR BOARD CN704
CN202 3P WHT :S-MICRO TO ZR BOARD CN1414 ③,④PINS
CN7 1P :TAB
CN205 4P WHT :S-MICRO TO HA BOARD CN3005
CN206 7P WHT :S-MICRO TO A BOARD CN3201
M VIDEO
ABL
FROM (1/3)
H.BLK
VTM
SYS
FROM (3/3)
V BLK FROM (3/3)
MT.V FROM (1/3)
RGB MUTE TO (1/3)
PIP-RST
P.CONT
MUL-P
TO (1/3)
MSCP
12V
D5V
A5V
9V
FROM (1/3)
/BINT
M.AFT
M.AGC
FS
M VIDEO
SIF
MAIN L
MAIN R
AM MONO
SCL
SDA
TO (1/3), (3/3)
VAR L
VAR R
AUDIO L/R
AUDIO L
AUDIO R
TV L
TV R
VAR MUTE
STBY +5V
A +5V
D +5V
HP L
GND
HP R
L
R
MUTE
SP-MUTE
VAR MUTE
YS (TEXT)

## B(2/3) BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E | | B | C | E | | B |
|---|---|---|---|---|---|---|---|---|---|
| Q201 | 2.7 | GND | 3.4 | Q221 | 2.1 | 5.8 | 1.5 | Q242 | 1. |
| Q202 | 0 | 2.2 | GND | Q222 | 0 | 5.1 | GND | Q243 | 8. |
| Q203 | 0.5 | 2.2 | GND | Q223 | 4.8 | 9.3 | 4.2 | Q244 | 1. |
| Q204 | 1.8 | GND | 2.2 | Q225 | 3.4 | 0 | GND | Q245 | 1. |
| Q205 | 2.1 | GND | 2.3 | Q226 | 0 | 3.4 | GND | Q246 | 3. |
| Q206 | 0 | 2.4 | GND | Q227 | 7.8 | 9.4 | 7.1 | Q247 | 6. |
| Q207 | 0.5 | 2.4 | GND | Q228 | 7.3 | 7.3 | 6.7 | Q248 | 10. |
| Q208 | 5.0 | 9.3 | 4.3 | Q229 | 7.3 | 7.3 | 6.7 | Q249 | 6. |
| Q209 | 0 | 2.3 | GND | Q230 | 6.7 | 9.4 | 6.0 | Q250 | 2. |
| Q210 | 1.9 | GND | 2.3 | Q231 | 2.2 | 7.8 | 1.5 | Q251 | 5. |
| Q211 | 5.0 | 9.3 | 4.3 | Q232 | 6.7 | 9.4 | 6.0 | Q252 | 2. |
| Q212 | 0.5 | 2.3 | GND | Q233 | 1.8 | 6.0 | 1.1 | Q253 | 0. |
| Q213 | 1.7 | 5.0 | 1.0 | Q234 | 3.4 | 6.7 | 2.8 | Q254 | 2. |
| Q214 | 9.6 | 5.9 | 9.9 | Q235 | 3.4 | 6.7 | 2.8 | Q255 | 2. |
| Q215 | 4.7 | 9.3 | 4.0 | Q236 | 1.2 | GND | 1.8 | Q256 | 0. |
| Q216 | 1.1 | GND | 1.8 | Q237 | 2.8 | 5.2 | 2.1 | Q257 | 1. |
| Q217 | 5.2 | 9.3 | 4.7 | Q238 | 4.2 | 3.4 | 4.8 | Q258 | 3. |
| Q218 | 5.8 | 9.3 | 5.2 | Q239 | 2.6 | 1.2 | 3.0 | Q259 | 3. |
| Q219 | 4.2 | GND | 4.7 | Q240 | 1.2 | 2.6 | 0.5 | Q260 | 0. |
| Q220 | 4.5 | GND | 5.2 | Q241 | 2.8 | GND | 3.4 | Q261 | -0. |

## B (2/3) ( AUDIO/TEXT PROCESSOR, SYSTEM CONTROL, RGB MATRIX )


16
17
18
19
20
21
22
CN201 9P RED :S-MICRO TO CR BOARD CN704
R G GND B GND 12V GND IK
CN202 3P WHT :S-MICRO TO ZR BOARD CN1414 ③,④PINS
YM NC GND
9V
Q208 2SC2412K BUFF
Q213 2SC2412K BUFF
Q211 2SC2412K BUFF
IC202 NJM2234M (T1) YM SW
Q214 2SA1037K IK BUFF
D206 DAN202K
D207 MA3075M-TX
Q215 2SC2412K BUFF
Q216 2SA1037K INV
Q217 2SC2412K AMP
Q218 2SC2412K BUFF
Q219 2SA1037K AMP
Q220 2SA1037K SW
Q221 2SC2412K BUFF
Q223 2SC2412K SW
DL201 50N
D208 DAN202K
D209 BAS16
D210 BAS16
Q227 2SC2412K BUFF
Q228 2SC2412K BUFF
Q229 2SC2412K BUFF
Q230 2SC2412K BUFF
Q231 2SC2412K AMP
Q232 2SC2412K BUFF
Q233 2SC2412K SW
Q234 2SC2412K BUFF
Q235 2SC2412K BUFF
Q237 2SC2412K BUFF
Q238 2SA1037K BUFF
Q239 2SA1037K BUFF
Q240 2SC2412K SW
Q241 2SA1037K BUFF
Q242 2SC2412K SW
A +5V
12V
IC208 CX20125 DYNAMIC.PICTURE
BLACK BCBLK BB Y OUT DC.TR Y IN VCC
D221 DAN202K
Q243 2SC2412K BUFF
Q244 2SA1037K BUFF
Q245 2SC2412K BC.SHIFT
B-Y
IC210 MC14066BF-T2 Y/U/V SW
Q246 2SC2412K (Y) BUFF
Q254 2SA1037K SW
D223 DAN202K
Q257 2SA1037K SW
Q259 2SC2412K (V) BUFF
IC211 MC74HC4053F-T2 MULTIPLEXER
VCC U-OUT Y-OUT YM-Y Y-V V-OUT YM-U U ENB VEE GND
MSCP
12V
B5V
A5V
9V
FROM (1/3)
Q284 (U) DELAY
Q255 2SC2412K (U) BUFF
Q258 2SC2412K (U) BUFF
Q262 2SC2412K (V) BUFF
Q285 (U) DELAY
R-Y
M-Y
M-V
M-U
M-HS
FROM (2/3)
STBY +5V
STSV FROM (1/3)
B-SS443.<AEP>-B..
IC213 LM358BR-E2 AMP
CN7 1P :TAB
GND
CN205 4P WHT :S-MICRO TO HA BOARD CN3005
HP L
GND
GND
HP R
CN206 7P WHT :S-MICRO TO A BOARD CN3201
AUDIO L
AUDIO R
L
GND
R
GND
MUTE
SP-MUTE
VAR MUTE

| IC202 LOGIC | | |
|---|---|---|
| ② YS (TEXT) | ④ YS OR YM (OSD) | ⑨ OUT |
| L | L | YM |
| L | H | NO SIGNAL |
| H | L | NO SIGNAL |
| H | H | NO SIGNAL |

## B(2/3) BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E | | B | C | E | | B | C | E | | B | C | E |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Q201 | 2.7 | GND | 3.4 | Q221 | 2.1 | 5.8 | 1.5 | Q242 | 1.2 | 1.2 | 0.7 | Q262 | 2.5 | 5.2 | 1.9 |
| Q202 | 0 | 2.2 | GND | Q222 | 0 | 5.1 | GND | Q243 | 8.0 | 12.7 | 7.4 | Q263 | 11.9 | 12.6 | 12.7 |
| Q203 | 0.5 | 2.2 | GND | Q223 | 4.8 | 9.3 | 4.2 | Q244 | 1.4 | GND | 2.1 | Q264 | 0.2 | GND | 0.9 |
| Q204 | 1.8 | GND | 2.2 | Q225 | 3.4 | 0 | GND | Q245 | 1.2 | 1.4 | 0.7 | Q265 | 0.8 | 0 | 0 |
| Q205 | 2.1 | GND | 2.3 | Q226 | 0 | 3.4 | GND | Q246 | 3.4 | 5.2 | 2.8 | Q266 | 0 | 0.8 | 0 |
| Q206 | 0 | 2.4 | GND | Q227 | 7.8 | 9.4 | 7.1 | Q247 | 6.9 | 12.7 | 6.2 | Q267 | -0.4 | 0 | GND |
| Q207 | 0.5 | 2.4 | GND | Q228 | 7.3 | 7.3 | 6.7 | Q248 | 10.5 | 12.7 | 9.9 | Q268 | 4.2 | GND | 4.8 |
| Q208 | 5.0 | 9.3 | 4.3 | Q229 | 7.3 | 7.3 | 6.7 | Q249 | 6.3 | 12.7 | 5.7 | Q270 | 4.8 | 8.2 | 4.1 |
| Q209 | 0 | 2.3 | GND | Q230 | 6.7 | 9.4 | 6.0 | Q250 | 2.4 | 6.9 | 1.7 | Q271 | 4.7 | 8.2 | 4.1 |
| Q210 | 1.9 | GND | 2.3 | Q231 | 2.2 | 7.8 | 1.5 | Q251 | 5.7 | 12.7 | 5.0 | Q272 | 4.2 | GND | 4.8 |
| Q211 | 5.0 | 9.3 | 4.3 | Q232 | 6.7 | 9.4 | 6.0 | Q252 | 2.3 | 10.5 | 1.7 | Q273 | -0.3 | 0 | GND |
| Q212 | 0.5 | 2.3 | GND | Q233 | 1.8 | 6.0 | 1.1 | Q253 | 0.2 | GND | 0.9 | Q274 | 0 | -0.3 | 0 |
| Q213 | 1.7 | 5.0 | 1.0 | Q234 | 3.4 | 6.7 | 2.8 | Q254 | 2.6 | GND | 3.3 | Q275 | -0.3 | 0 | GND |
| Q214 | 9.6 | 5.9 | 9.9 | Q235 | 3.4 | 6.7 | 2.8 | Q255 | 2.5 | 5.2 | 1.8 | Q277 | 9.1 | 1.6 | 9.4 |
| Q215 | 4.7 | 9.3 | 4.0 | Q236 | 1.2 | GND | 1.8 | Q256 | 0.2 | GND | 0.9 | Q278 | 0.3 | 5.1 | GND |
| Q216 | 1.1 | GND | 1.8 | Q237 | 2.8 | 5.2 | 2.1 | Q257 | 1.8 | GND | 2.5 | Q280 | 0.3 | 0.4 | GND |
| Q217 | 5.2 | 9.3 | 4.7 | Q238 | 4.2 | 3.4 | 4.8 | Q258 | 3.2 | 5.2 | 2.5 | Q281 | 0.2 | 0.8 | GND |
| Q218 | 5.8 | 9.3 | 5.2 | Q239 | 2.6 | 1.2 | 3.0 | Q259 | 3.1 | 5.2 | 2.5 | Q282 | 1.4 | 0.2 | GND |
| Q219 | 4.2 | GND | 4.7 | Q240 | 1.2 | 2.6 | 0.5 | Q260 | 0.2 | GND | 0.9 | | | | |
| Q220 | 4.5 | GND | 5.2 | Q241 | 2.8 | GND | 3.4 | Q261 | -0.4 | 0 | GND | | | | |

All voltages are in V.

## B(2/3) BOARD IC VOLTAGE LIST

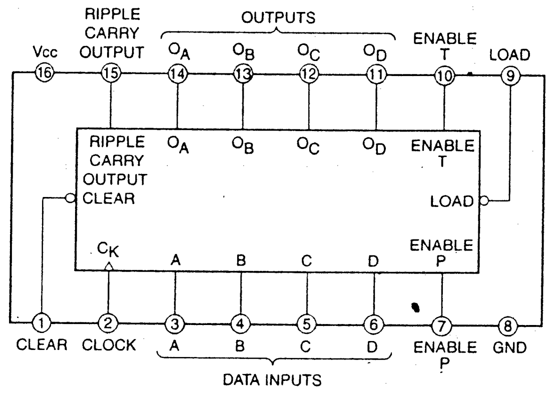
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| IC201 | 1 | 3.1 | IC206 | 1 | 0 | | 45 | 0 | | 15 | GND |
| | 2 | 0 | | 2 | 5.4 | | 46 | 0 | | 16 | GND |
| | 3 | 0.2 | | 3 | 5.4 | | 47 | 4.9 | | 19 | GND |
| | 4 | 5.2 | | 4 | 5.4 | | 48 | 5.2 | | 20 | 2.7 |
| | 5 | 5.1 | | 5 | 8.6 | | 49 | 4.9 | | 21 | 2.6 |
| | 6 | 5.2 | | 6 | 4.3 | | 50 | 5.2 | | 22 | GND |
| | 7 | 2.7 | | 7 | 4.3 | | 52 | 4.0 | | 23 | 1.7 |
| | 8 | 2.7 | | 8 | 4.1 | | 53 | 4.0 | | 24 | 1.7 |
| | 9 | 2.7 | | 9 | GND | | 54 | 4.0 | | 25 | 0.7 |
| | 10 | 2.7 | | 10 | 5.4 | | 55 | GND | | 26 | 5.2 |
| | 11 | 2.7 | | 11 | 5.4 | | 56 | 5.2 | | 27 | GND |
| | 12 | 2.6 | | 12 | 5.4 | | 57 | 5.2 | | 28 | 4.1 |
| | 13 | 2.6 | | 13 | 0 | | 58 | 0 | | 29 | 2.9 |
| | 14 | 2.7 | | 14 | 0.8 | | 59 | 0.4 | | 30 | 4.1 |
| | 15 | 2.7 | | 15 | 4.5 | | 60 | 0.6 | | 31 | 4.1 |
| | 16 | 2.6 | | 16 | 5.1 | | 61 | 0 | | 32 | GND |
| | 17 | 2.6 | | 17 | 5.5 | | 62 | 0 | | 33 | 4.1 |
| | 19 | 4.9 | | 18 | 2.2 | | 63 | 0 | | 34 | 4.1 |
| | 20 | 4.9 | | 19 | 5.8 | | 64 | 0 | | 35 | GND |
| | 25 | 0.4 | | 20 | 1.9 | IC208 | 1 | 9.3 | | 36 | 4.1 |
| | 26 | 0.6 | | 21 | 3.2 | | 2 | 0.6 | | 37 | 4.1 |
| | 27 | 2.8 | | 22 | 2.1 | | 3 | 0.3 | | 38 | GND |
| | 28 | * | | 23 | 3.2 | | 4 | GND | | 39 | 4.1 |
| | 29 | 5.2 | | 24 | 1.8 | | 5 | 8.0 | | 40 | 4.1 |
| | 34 | 5.2 | | 25 | 3.0 | | 6 | 9.5 | | 41 | 4.1 |
| | 35 | GND | | 26 | 3.5 | | 7 | 6.1 | | 42 | 4.1 |
| | 36 | 0 | | 27 | 5.0 | | 8 | 12.7 | | 43 | GND |
| | 37 | 0 | | 28 | 4.8 | IC209 | 1 | 6.5 | | 44 | 7.2 |
| | 38 | 0 | IC207 | 1 | 5.2 | | 2 | 12.4 | | 45 | 8.2 |
| | 39 | 0 | | 2 | 0 | | 3 | 6.6 | | 46 | 7.1 |
| | 40 | GND | | 3 | 0 | | 4 | GND | | 47 | 4.2 |
| | 41 | 5.2 | | 4 | 0 | | 5 | 1.4 | | 48 | 4.2 |
| | 42 | 1.7 | | 5 | 0 | | 6 | 0.9 | | 49 | GND |
| | 43 | GND | | 6 | 0 | | 7 | 0.9 | | 52 | GND |
| IC202 | 1 | 5.7 | | 7 | 0 | | 8 | 1.4 | | 53 | 4.1 |
| | 2 | 0 | | 8 | 0 | IC210 | 1 | 3.2 | | 54 | 4.1 |
| | 3 | 5.8 | | 9 | 0 | | 2 | 3.3 | | 55 | GND |
| | 4 | 0 | | 10 | 0.6 | | 3 | 3.3 | | 56 | 0.2 |
| | 5 | 5.7 | | 11 | 0 | | 4 | 3.1 | | 57 | 0.2 |
| | 6 | 9.3 | | 12 | 5.1 | | 5 | 0.4 | | 58 | GND |
| | 7 | 5.0 | | 13 | 0 | | 6 | 0.4 | | 59 | 0.2 |
| | 8 | GND | | 15 | 0 | | 7 | GND | | 60 | 0.2 |
| IC203 | 1 | 0.2 | | 16 | 0 | | 8 | 3.4 | | 61 | 5.2 |
| | 2 | 5.2 | | 17 | 0 | | 9 | 3.3 | | 66 | GND |
| | 3 | 5.1 | | 18 | 5.2 | | 10 | 3.3 | | 67 | 5.2 |
| | 5 | 0 | | 19 | 0.2 | | 11 | 3.4 | IC213 | 1 | 1.1 |
| | 9 | 2.7 | | 20 | 5.2 | | 12 | 0.4 | | 2 | 1.2 |
| | 10 | 2.7 | | 21 | 0.2 | | 13 | 0.4 | | 3 | 1.2 |
| | 11 | 2.7 | | 22 | 0 | | 14 | 5.2 | | 4 | GND |
| | 12 | 2.7 | | 23 | 0 | IC211 | 1 | 2.5 | | 5 | 1.2 |
| | 13 | 5.2 | | 24 | 0 | | 2 | 2.5 | | 6 | 1.1 |
| | 14 | 5.7 | | 25 | 5.2 | | 3 | 2.5 | | 7 | 1.2 |
| | 15 | 2.6 | | 26 | GND | | 4 | 2.5 | | 8 | 8.2 |
| | 16 | 2.6 | | 27 | 0 | | 5 | 2.5 | IC214 | 1 | 0 |
| | 17 | 2.7 | | 28 | 2.7 | | 6 | GND | | 2 | 1.4 |
| | 18 | 2.7 | | 29 | 2.6 | | 7 | GND | | 3 | GND |
| | 22 | 2.6 | | 30 | 5.2 | | 8 | GND | | 4 | GND |
| | 24 | 5.2 | | 31 | 0 | | 9 | 0 | | 5 | 0 |
| | 25 | 0.2 | | 32 | 0 | | 10 | 0 | | 6 | GND |
| | 26 | GND | | 33 | 0 | | 11 | 0 | | 7 | 5.2 |
| IC204 | 1 | GND | | 34 | 5.2 | | 12 | 2.8 | | 8 | GND |
| | 2 | GND | | 35 | 5.2 | | 13 | 2.6 | | 9 | 0.5 |
| | 3 | GND | | 36 | 2.6 | | 14 | 2.8 | | 10 | 5.2 |
| | 4 | GND | | 37 | 5.2 | | 15 | 2.5 | | 11 | – |
| | 5 | 5.2 | | 38 | 0 | | 16 | 5.2 | | 15 | 0 |
| | 6 | 5.2 | | 39 | 3.8 | IC212 | 1 | – | | 16 | 5.3 |
| | 7 | GND | | 40 | 2.8 | | 8 | 5.0 | | | |
| | 8 | 5.2 | | 41 | 0 | | 9 | 4.9 | | | |
| IC205 | 1 | 5.2 | | 42 | 0 | | 10 | GND | | | |
| | 2 | 5.2 | | 43 | 0 | | 11 | 5.2 | | | |
| | 3 | GND | | 44 | 0 | | 12 | GND | | | |

All voltages are in V.
*:Can not mesured.
Pin numbers which are not described are not used.

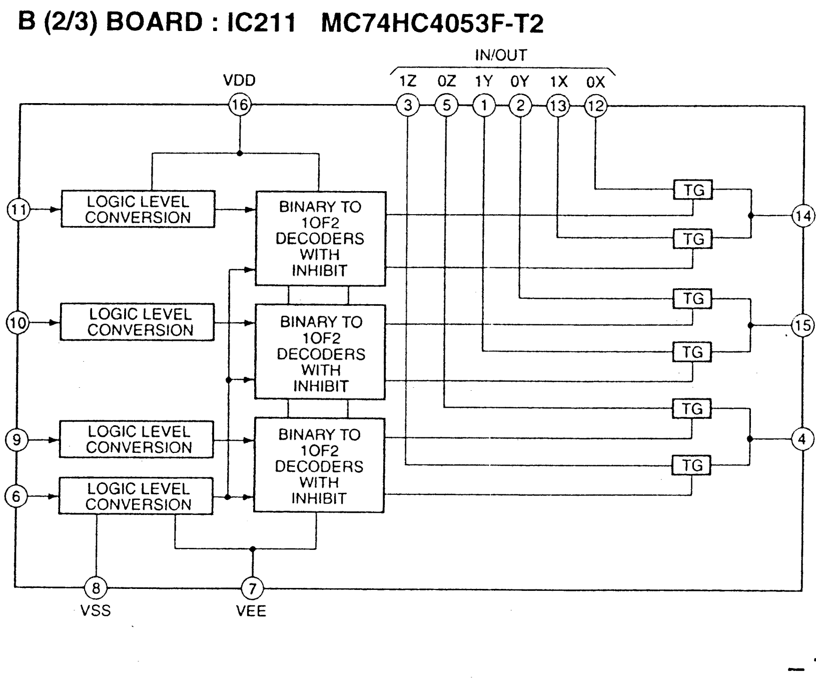
## B(2/3) BOARD ＊MARK LIST

| | KP-41S3/41S3U | KP-41S3K |
|---|---|---|
| IC201 | TPU3040-TC20 | TPU3041TC-22-TP |

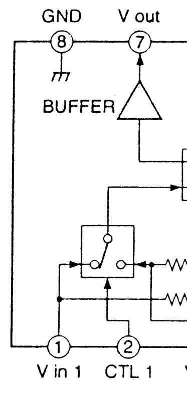
## B (2/3) BOARD : IC214 MC74HC163AF

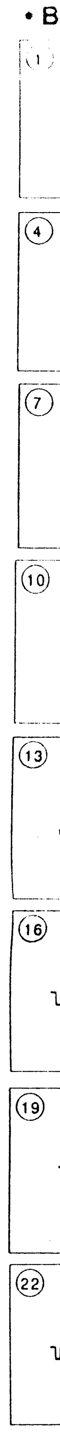

Vcc
RIPPLE CARRY OUTPUT
OUTPUTS
$O_A$
$O_B$
$O_C$
$O_D$
ENABLE T
LOAD
16
15
14
13
12
11
10
9
RIPPLE CARRY OUTPUT
CLEAR
$C_K$
A
B
C
D
ENABLE T
LOAD
ENABLE P
1
2
3
4
5
6
7
8
CLEAR
CLOCK
A
B
C
D
ENABLE P
GND
DATA INPUTS

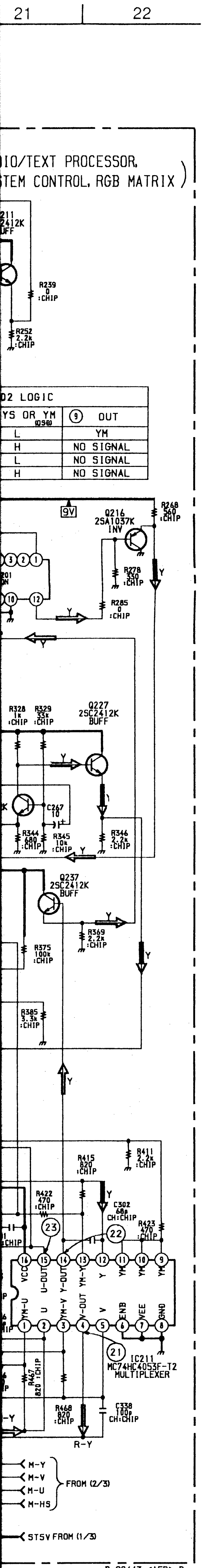
## B (2/3) BOARD : IC211 MC74HC4053F-T2


IN/OUT
VDD
1Z
0Z
1Y
0Y
1X
0X
16
3
5
1
2
13
12
A 11
B 10
C 9
INH 6
LOGIC LEVEL CONVERSION
BINARY TO 1OF2 DECODERS WITH INHIBIT
TG
14
15
4
8
VSS
7
VEE

## B (2/3) BOARD


GND
V out
8
7
BUFFER
1
2
V in 1
CTL 1


• B
4
7
10
13
16
19
22


21
22
IO/TEXT PROCESSOR,
TEM CONTROL, RGB MATRIX
211
2412K
UFF
R239
0
:CHIP
R252
2.2k
:CHIP
9V
Q216
2SA1037K
INV
R268
560
:CHIP
R278
330
:CHIP
R285
0
:CHIP
Y
Q227
2SC2412K
BUFF
R328
1k
:CHIP
R329
33k
:CHIP
C267
10
R344
680
:CHIP
R345
10k
:CHIP
R346
2.2k
:CHIP
Q237
2SC2412K
BUFF
R369
2.2k
:CHIP
R375
100k
:CHIP
R385
3.3k
:CHIP
R411
2.2k
:CHIP
R415
820
:CHIP
R422
470
:CHIP
C302
68p
CH:CHIP
R423
470
:CHIP
23
22
21
VCC
U-OUT
Y-OUT
YM-Y
Y
YM
YM-U
U
YM-V
V-OUT
V
ENB
VEE
GND
IC211
MC74HC4053F-T2
MULTIPLEXER
R467
820 :CHIP
R468
820
:CHIP
C338
100p
CH:CHIP
R-Y
M-Y
M-V
M-U
M-HS
FROM (2/3)
STSV FROM (1/3)
B-SS443.<AEP>-B..

| D2 LOGIC | |
|---|---|
| YS OR YM (Q58) | ⑨ OUT |
| L | YM |
| H | NO SIGNAL |
| L | NO SIGNAL |
| H | NO SIGNAL |

## B(2/3) BOARD IC VOLTAGE LIST

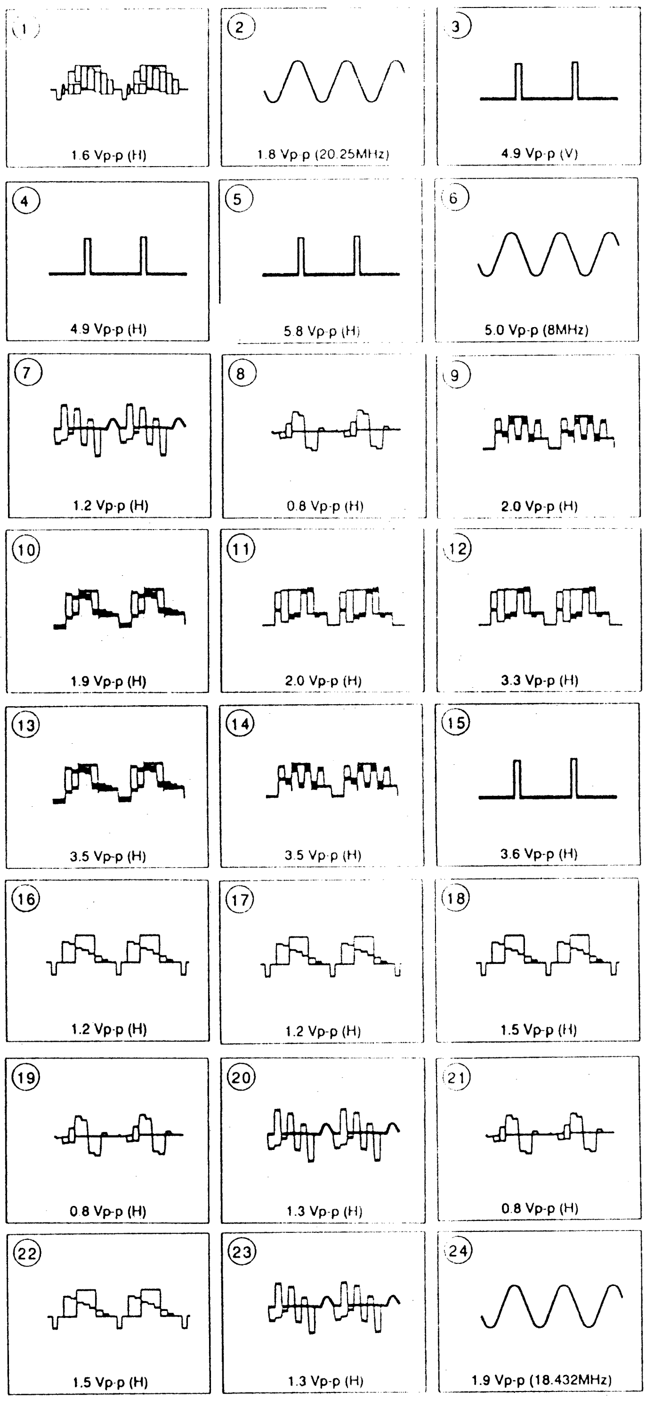
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| IC201 | 1 | 3.1 | IC206 | 1 | 0 | | 45 | 0 | | 15 | GND |
| | 2 | 0 | | 2 | 5.4 | | 46 | 0 | | 16 | GND |
| | 3 | 0.2 | | 3 | 5.4 | | 47 | 4.9 | | 19 | GND |
| | 4 | 5.2 | | 4 | 5.4 | | 48 | 5.2 | | 20 | 2.7 |
| | 5 | 5.1 | | 5 | 8.6 | | 49 | 4.9 | | 21 | 2.6 |
| | 6 | 5.2 | | 6 | 4.3 | | 50 | 5.2 | | 22 | GND |
| | 7 | 2.7 | | 7 | 4.3 | | 52 | 4.0 | | 23 | 1.7 |
| | 8 | 2.7 | | 8 | 4.1 | | 53 | 4.0 | | 24 | 1.7 |
| | 9 | 2.7 | | 9 | GND | | 54 | 4.0 | | 25 | 0.7 |
| | 10 | 2.7 | | 10 | 5.4 | | 55 | GND | | 26 | 5.2 |
| | 11 | 2.7 | | 11 | 5.4 | | 56 | 5.2 | | 27 | GND |
| | 12 | 2.6 | | 12 | 5.4 | | 57 | 5.2 | | 28 | 4.1 |
| | 13 | 2.6 | | 13 | 0 | | 58 | 0 | | 29 | 2.9 |
| | 14 | 2.7 | | 14 | 0.8 | | 59 | 0.4 | | 30 | 4.1 |
| | 15 | 2.7 | | 15 | 4.5 | | 60 | 0.6 | | 31 | 4.1 |
| | 16 | 2.6 | | 16 | 5.1 | | 61 | 0 | | 32 | GND |
| | 17 | 2.6 | | 17 | 5.5 | | 62 | 0 | | 33 | 4.1 |
| | 19 | 4.9 | | 18 | 2.2 | | 63 | 0 | | 34 | 4.1 |
| | 20 | 4.9 | | 19 | 5.8 | | 64 | 0 | | 35 | GND |
| | 25 | 0.4 | | 20 | 1.9 | IC208 | 1 | 9.3 | | 36 | 4.1 |
| | 26 | 0.6 | | 21 | 3.2 | | 2 | 0.6 | | 37 | 4.1 |
| | 27 | 2.8 | | 22 | 2.1 | | 3 | 0.3 | | 38 | GND |
| | 28 | * | | 23 | 3.2 | | 4 | GND | | 39 | 4.1 |
| | 29 | 5.2 | | 24 | 1.8 | | 5 | 8.0 | | 40 | 4.1 |
| | 34 | 5.2 | | 25 | 3.0 | | 6 | 9.5 | | 41 | 4.1 |
| | 35 | GND | | 26 | 3.5 | | 7 | 6.1 | | 42 | 4.1 |
| | 36 | 0 | | 27 | 5.0 | | 8 | 12.7 | | 43 | GND |
| | 37 | 0 | | 28 | 4.8 | IC209 | 1 | 6.5 | | 44 | 7.2 |
| | 38 | 0 | IC207 | 1 | 5.2 | | 2 | 12.4 | | 45 | 8.2 |
| | 39 | 0 | | 2 | 0 | | 3 | 6.6 | | 46 | 7.1 |
| | 40 | GND | | 3 | 0 | | 4 | GND | | 47 | 4.2 |
| | 41 | 5.2 | | 4 | 0 | | 5 | 1.4 | | 48 | 4.2 |
| | 42 | 1.7 | | 5 | 0 | | 6 | 0.9 | | 49 | GND |
| | 43 | GND | | 6 | 0 | | 7 | 0.9 | | 52 | GND |
| IC202 | 1 | 5.7 | | 7 | 0 | | 8 | 1.4 | | 53 | 4.1 |
| | 2 | 0 | | 8 | 0 | IC210 | 1 | 3.2 | | 54 | 4.1 |
| | 3 | 5.8 | | 9 | 0 | | 2 | 3.3 | | 55 | GND |
| | 4 | 0 | | 10 | 0.6 | | 3 | 3.3 | | 56 | 0.2 |
| | 5 | 5.7 | | 11 | 0 | | 4 | 3.1 | | 57 | 0.2 |
| | 6 | 9.3 | | 12 | 5.1 | | 5 | 0.4 | | 58 | GND |
| | 7 | 5.0 | | 13 | 0 | | 6 | 0.4 | | 59 | 0.2 |
| | 8 | GND | | 15 | 0 | | 7 | GND | | 60 | 0.2 |
| IC203 | 1 | 0.2 | | 16 | 0 | | 8 | 3.4 | | 61 | 5.2 |
| | 2 | 5.2 | | 17 | 0 | | 9 | 3.3 | | 66 | GND |
| | 3 | 5.1 | | 18 | 5.2 | | 10 | 3.3 | | 67 | 5.2 |
| | 5 | 0 | | 19 | 0.2 | | 11 | 3.4 | IC213 | 1 | 1.1 |
| | 9 | 2.7 | | 20 | 5.2 | | 12 | 0.4 | | 2 | 1.2 |
| | 10 | 2.7 | | 21 | 0.2 | | 13 | 0.4 | | 3 | 1.2 |
| | 11 | 2.7 | | 22 | 0 | | 14 | 5.2 | | 4 | GND |
| | 12 | 2.7 | | 23 | 0 | IC211 | 1 | 2.5 | | 5 | 1.2 |
| | 13 | 5.2 | | 24 | 0 | | 2 | 2.5 | | 6 | 1.1 |
| | 14 | 5.7 | | 25 | 5.2 | | 3 | 2.5 | | 7 | 1.2 |
| | 15 | 2.6 | | 26 | GND | | 4 | 2.5 | | 8 | 8.2 |
| | 16 | 2.6 | | 27 | 0 | | 5 | 2.5 | IC214 | 1 | 0 |
| | 17 | 2.7 | | 28 | 2.7 | | 6 | GND | | 2 | 1.4 |
| | 18 | 2.7 | | 29 | 2.6 | | 7 | GND | | 3 | GND |
| | 22 | 2.6 | | 30 | 5.2 | | 8 | GND | | 4 | GND |
| | 24 | 5.2 | | 31 | 0 | | 9 | 0 | | 5 | 0 |
| | 25 | 0.2 | | 32 | 0 | | 10 | 0 | | 6 | GND |
| | 26 | GND | | 33 | 0 | | 11 | 0 | | 7 | 5.2 |
| IC204 | 1 | GND | | 34 | 5.2 | | 12 | 2.8 | | 8 | GND |
| | 2 | GND | | 35 | 5.2 | | 13 | 2.6 | | 9 | 0.5 |
| | 3 | GND | | 36 | 2.6 | | 14 | 2.8 | | 10 | 5.2 |
| | 4 | GND | | 37 | 5.2 | | 15 | 2.5 | | 11 | – |
| | 5 | 5.2 | | 38 | 0 | | 16 | 5.2 | | 15 | 0 |
| | 6 | 5.2 | | 39 | 3.8 | IC212 | 1 | – | | 16 | 5.3 |
| | 7 | GND | | 40 | 2.8 | | 8 | 5.0 | | | |
| | 8 | 5.2 | | 41 | 0 | | 9 | 4.9 | | | |
| IC205 | 1 | 5.2 | | 42 | 0 | | 10 | GND | | | |
| | 2 | 5.2 | | 43 | 0 | | 11 | 5.2 | | | |
| | 3 | GND | | 44 | 0 | | 12 | GND | | | |

All voltages are in V.
*:Can not mesured.
Pin numbers which are not described are not used.

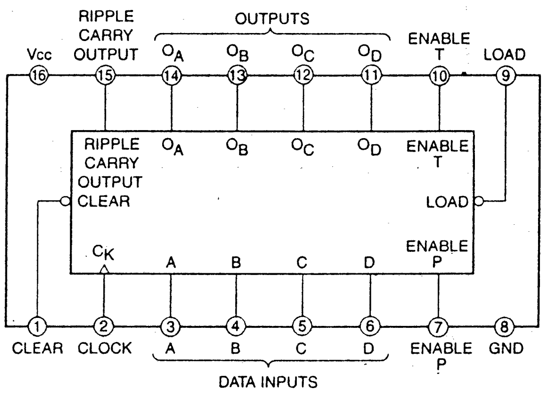
## B(2/3) BOARD * MARK LIST

| | KP-41S3/41S3U | KP-41S3K |
|---|---|---|
| IC201 | TPU3040-TC20 | TPU3041TC-22-TP |

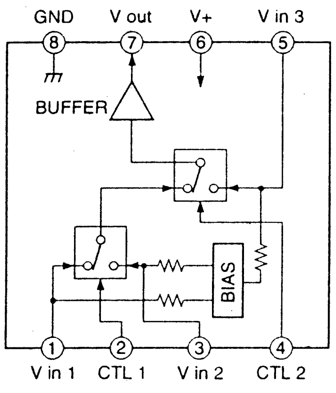
## • B (2/3) BOARD WAVEFORMS


1
1.6 Vp-p (H)
2
1.8 Vp-p (20.25MHz)
3
4.9 Vp-p (V)
4
4.9 Vp-p (H)
5
5.8 Vp-p (H)
6
5.0 Vp-p (8MHz)
7
1.2 Vp-p (H)
8
0.8 Vp-p (H)
9
2.0 Vp-p (H)
10
1.9 Vp-p (H)
11
2.0 Vp-p (H)
12
3.3 Vp-p (H)
13
3.5 Vp-p (H)
14
3.5 Vp-p (H)
15
3.6 Vp-p (H)
16
1.2 Vp-p (H)
17
1.2 Vp-p (H)
18
1.5 Vp-p (H)
19
0.8 Vp-p (H)
20
1.3 Vp-p (H)
21
0.8 Vp-p (H)
22
1.5 Vp-p (H)
23
1.3 Vp-p (H)
24
1.9 Vp-p (18.432MHz)

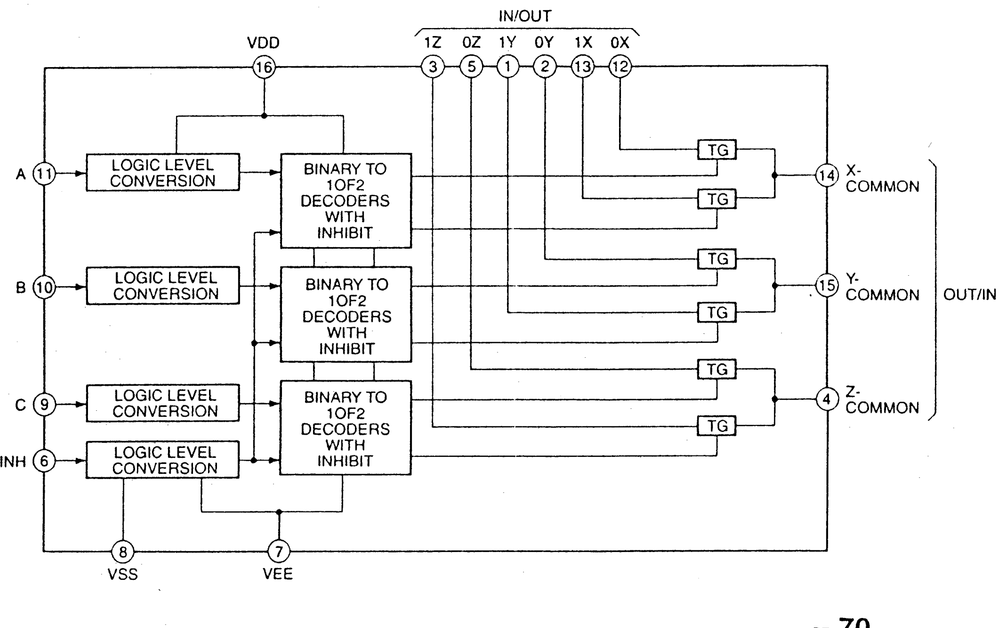
## B (2/3) BOARD : IC214 MC74HC163AF


Vcc
RIPPLE CARRY OUTPUT
OUTPUTS
$O_A$
$O_B$
$O_C$
$O_D$
ENABLE T
LOAD
16
15
14
13
12
11
10
9
RIPPLE CARRY OUTPUT
CLEAR
$C_K$
A
B
C
D
ENABLE T
LOAD
ENABLE P
1
2
3
4
5
6
7
8
CLEAR
CLOCK
A
B
C
D
ENABLE P
GND
DATA INPUTS

## B (2/3) BOARD : IC202 NJM2234M


GND
V out
V+
V in 3
8
7
6
5
BUFFER
BIAS
1
2
3
4
V in 1
CTL 1
V in 2
CTL 2

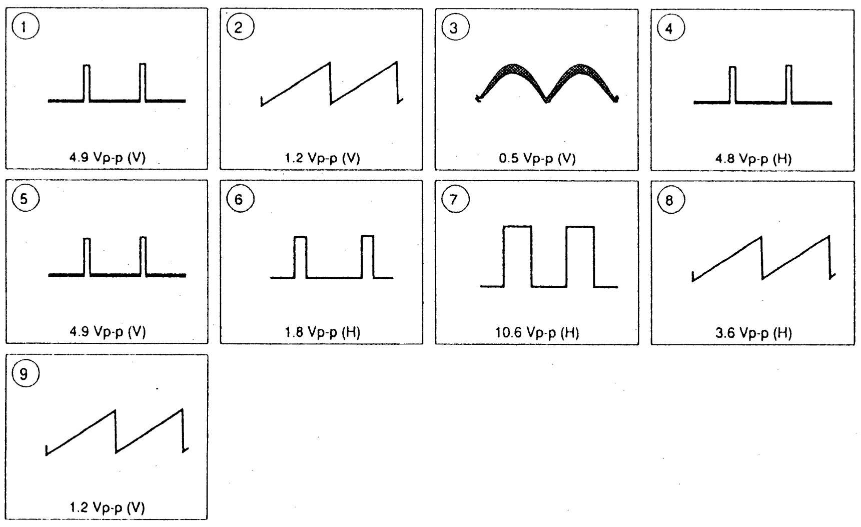
## B (2/3) BOARD : IC211 MC74HC4053F-T2


VDD
IN/OUT
1Z
0Z
1Y
0Y
1X
0X
16
3
5
1
2
13
12
A
11
B
10
C
9
INH
6
LOGIC LEVEL CONVERSION
BINARY TO 1OF2 DECODERS WITH INHIBIT
TG
14
X-COMMON
15
Y-COMMON
4
Z-COMMON
OUT/IN
8
VSS
7
VEE

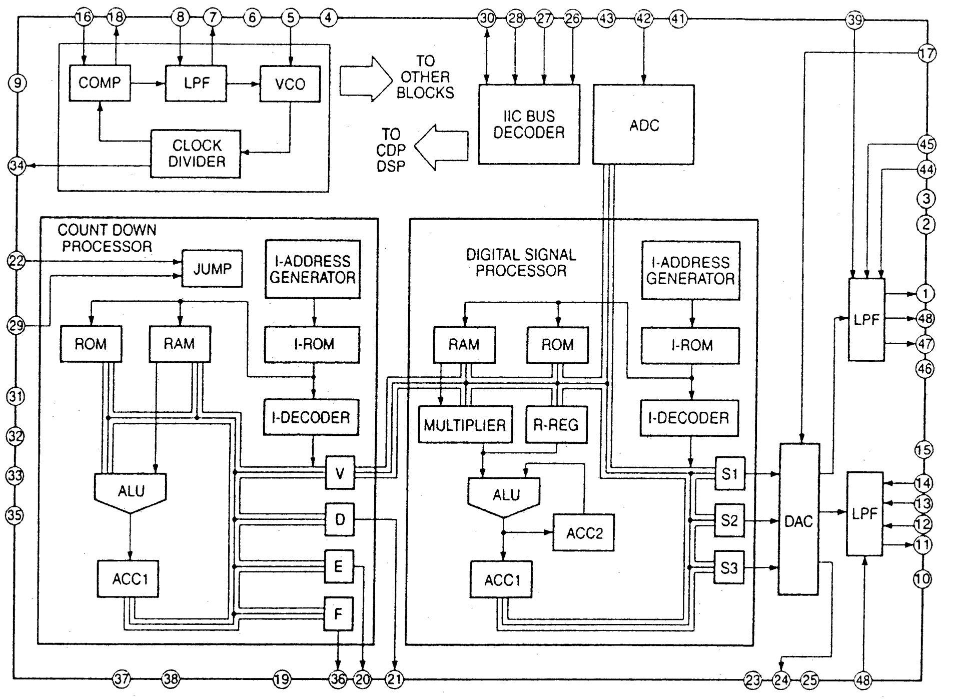
| E | | B | C | E |
|---|---|---|---|---|
| 0.7 | Q262 | 2.5 | 5.2 | 1.9 |
| 7.4 | Q263 | 11.9 | 12.6 | 12.7 |
| 2.1 | Q264 | 0.2 | GND | 0.9 |
| 0.7 | Q265 | 0.8 | 0 | 0 |
| 2.8 | Q266 | 0 | 0.8 | 0 |
| 6.2 | Q267 | -0.4 | 0 | GND |
| 9.9 | Q268 | 4.2 | GND | 4.8 |
| 5.7 | Q270 | 4.8 | 8.2 | 4.1 |
| 1.7 | Q271 | 4.7 | 8.2 | 4.1 |
| 5.0 | Q272 | 4.2 | GND | 4.8 |
| 1.7 | Q273 | -0.3 | 0 | GND |
| 0.9 | Q274 | 0 | -0.3 | 0 |
| 3.3 | Q275 | -0.3 | 0 | GND |
| 1.8 | Q277 | 9.1 | 1.6 | 9.4 |
| 0.9 | Q278 | 0.3 | 5.1 | GND |
| 2.5 | Q280 | 0.3 | 0.4 | GND |
| 2.5 | Q281 | 0.2 | 0.8 | GND |
| 2.5 | Q282 | 1.4 | 0.2 | GND |
| 0.9 | | | | |
| GND | | | | |

All voltages are in V.

## • B (3/3) BOARD WAVEFORMS



## B (3/3) BOARD : IC601 CXD2018Q


COMP
LPF
VCO
CLOCK DIVIDER
TO OTHER BLOCKS
TO CDP DSP
IIC BUS DECODER
ADC
COUNT DOWN PROCESSOR
JUMP
I-ADDRESS GENERATOR
ROM
RAM
I-ROM
I-DECODER
ALU
ACC1
V
D
E
F
DIGITAL SIGNAL PROCESSOR
RAM
ROM
I-ADDRESS GENERATOR
I-ROM
MULTIPLIER
R-REG
I-DECODER
ALU
ACC2
ACC1
S1
S2
S3
DAC
LPF
LPF

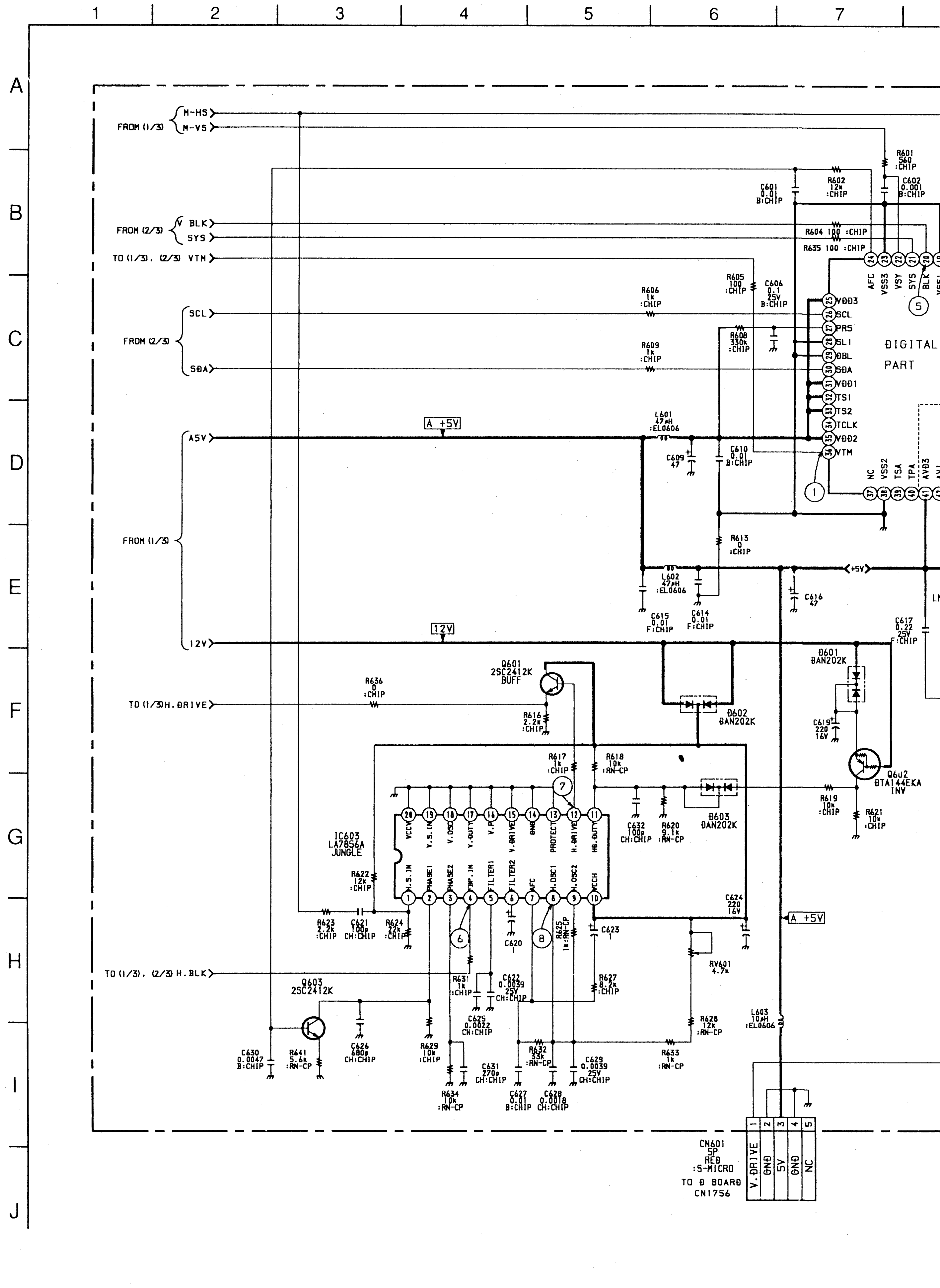
## B(3/3) BOARD IC VOLTAGE LIST

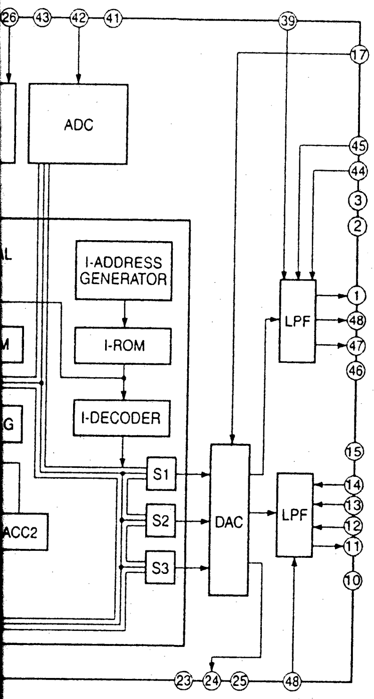
| | | | | | |
|---|---|---|---|---|---|
| IC601 | 1 | 2.2 | | 41 | 5.3 |
| | 2 | 5.3 | | 43 | GND |
| | 3 | 1.8 | | 44 | 1.6 |
| | 4 | GND | | 45 | 1.6 |
| | 5 | 2.4 | | 46 | GND |
| | 6 | GND | | 47 | 1.9 |
| | 7 | 2.4 | | 48 | 1.9 |
| | 8 | 2.7 | IC602 | 1 | 2.2 |
| | 9 | 5.3 | | 2 | 2.2 |
| | 10 | 5.3 | | 3 | 2.2 |
| | 11 | 2.2 | | 4 | GND |
| | 12 | 2.2 | | 5 | 1.9 |
| | 13 | 1.6 | | 6 | 1.9 |
| | 14 | 1.6 | | 7 | 2.1 |
| | 15 | GND | | 8 | 5.3 |
| | 16 | 0.4 | IC603 | 1 | 7.7 |
| | 17 | GND | | 2 | 8.3 |
| | 18 | 2.7 | | 3 | 8.4 |
| | 19 | GND | | 4 | 0.9 |
| | 20 | 0.6 | | 5 | 4.0 |
| | 21 | 0 | | 6 | 3.2 |
| | 22 | 0.2 | | 7 | 6.3 |
| | 23 | 0 | | 8 | 6.3 |
| | 24 | 1.3 | | 9 | 5.9 |
| | 25 | 5.3 | | 10 | 12.0 |
| | 26 | 4.9 | | 11 | 6.0 |
| | 27 | 5.1 | | 12 | 4.7 |
| | 28 | GND | | 13 | GND |
| | 29 | GND | | 14 | GND |
| | 30 | 4.9 | | 15 | GND |
| | 31 | 5.3 | | 16 | GND |
| | 32 | 5.3 | | 17 | GND |
| | 33 | 5.3 | | 18 | GND |
| | 35 | 5.3 | | 19 | GND |
| | 36 | 0.5 | | 20 | GND |
| | 38 | GND | | | |

All voltages are in V.
Pin numbers which are not
described are not used.

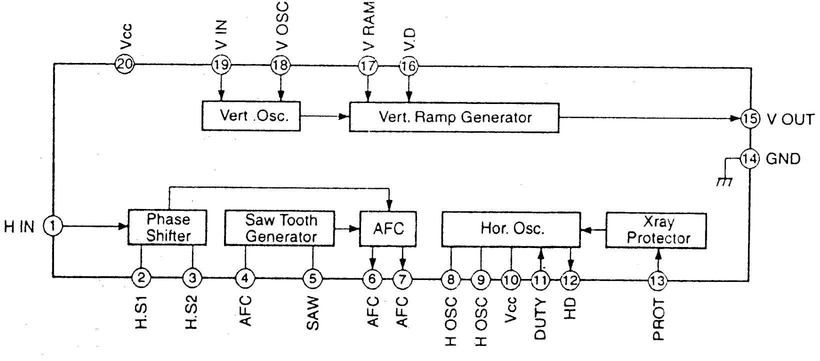
## B(3/3) BOARD TRANSISTOR VOLTAGE LIST

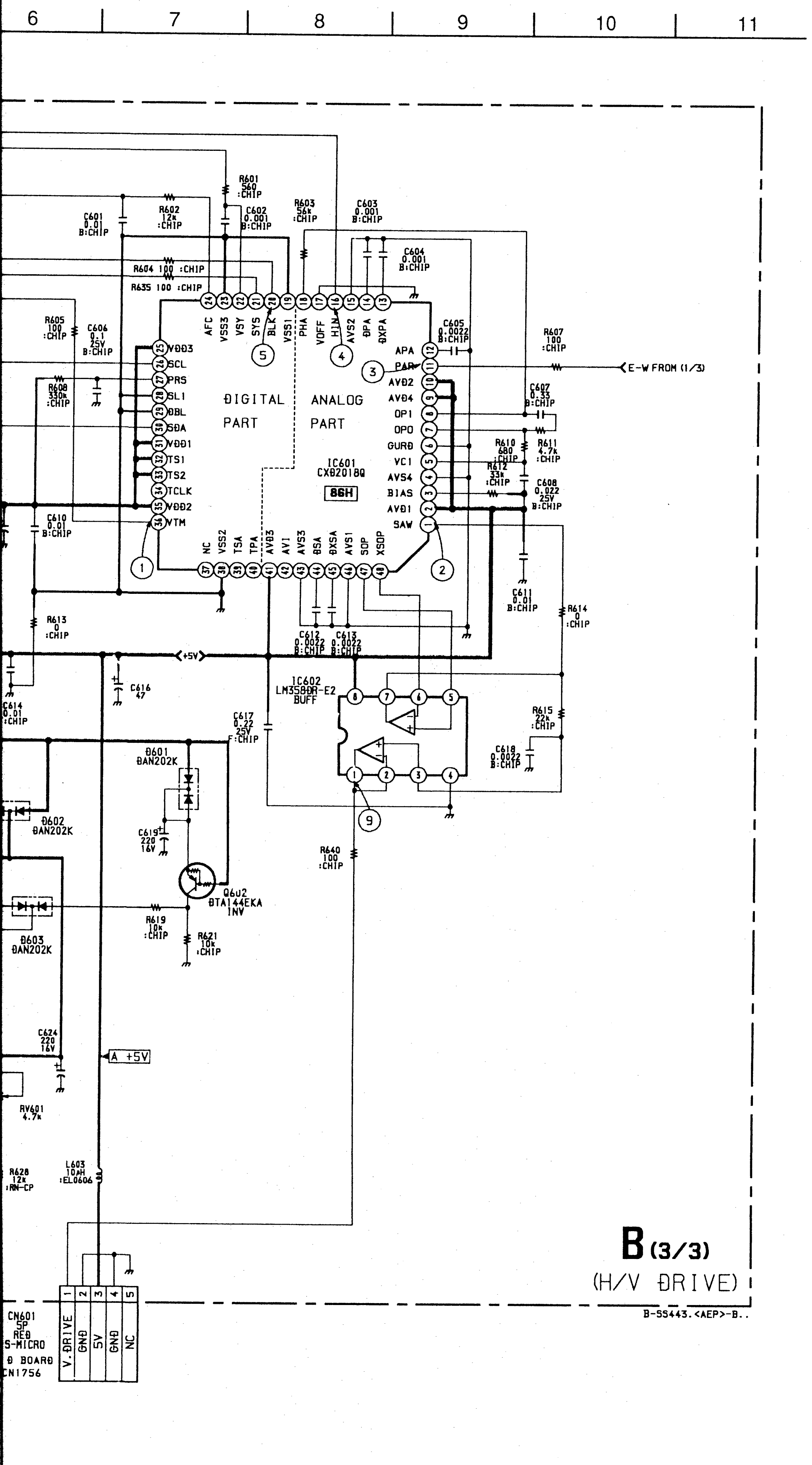
| | B | C | E |
|---|---|---|---|
| Q601 | 4.7 | 12.0 | 4.2 |
| Q602 | 12.7 | 0 | 12.6 |


1
2
3
4
5
6
7
A
B
C
D
E
F
G
H
I
J
FROM (1/3)
M-HS
M-VS
FROM (2/3)
V BLK
SYS
TO (1/3), (2/3) VTM
SCL
FROM (2/3)
SDA
A5V
A +5V
FROM (1/3)
12V
12V
TO (1/3)H.DRIVE
TO (1/3), (2/3) H.BLK
DIGITAL PART
IC603 LA7856A JUNGLE
Q601 2SC2412K BUFF
Q602 DTA144EKA INV
Q603 2SC2412K
D601 DAN202K
D602 DAN202K
D603 DAN202K
L601 47μH
L602 47μH
L603 10μH
RV601 4.7k
+5V
A +5V
CN601 5P RED :S-MICRO TO D BOARD CN1756
V.DRIVE
GND
5V
GND
NC
VCC
V.S.IN
V.OSC
V.OUT
V.P
V.DRIVE
GND
PROTECT
H.DRIVE
H.OUT
H.S.IN
PHASE1
PHASE2
BP.IN
FILTER1
FILTER2
AFC
H.OSC1
H.OSC2
VCCH
AFC
VSS3
VSY
SYS
BLK
VDD3
SCL
PRS
SL1
DBL
SDA
VDD1
TS1
TS2
TCLK
VDD2
VTM
NC
VSS2
TSA
TPA
AVD3


ADC
I-ADDRESS GENERATOR
I-ROM
I-DECODER
ACC2
S1
S2
S3
DAC
LPF
LPF

## B (3/3) BOARD : IC603 LA7856A


Vcc
V IN
V OSC
V RAMP
V D
Vert .Osc.
Vert. Ramp Generator
V OUT
GND
H IN
Phase Shifter
Saw Tooth Generator
AFC
Hor. Osc.
Xray Protector
H.S1
H.S2
AFC
SAW
AFC
AFC
H OSC
H OSC
Vcc
DUTY
HD
PROT


6
7
8
9
10
11
DIGITAL PART
ANALOG PART
IC601 CXD2018Q
IC602 LM358DR-E2 BUFF
E-W FROM (1/3)
+5V
A +5V
D601 DAN202K
D602 DAN202K
D603 DAN202K
Q602 DTA144EKA INV
RV601 4.7k
L603 10μH
CN601 5P RED S-MICRO
D BOARD CN1756
V.DRIVE
GND
5V
GND
NC
B (3/3)
(H/V DRIVE)
B-55443.<AEP>-B..

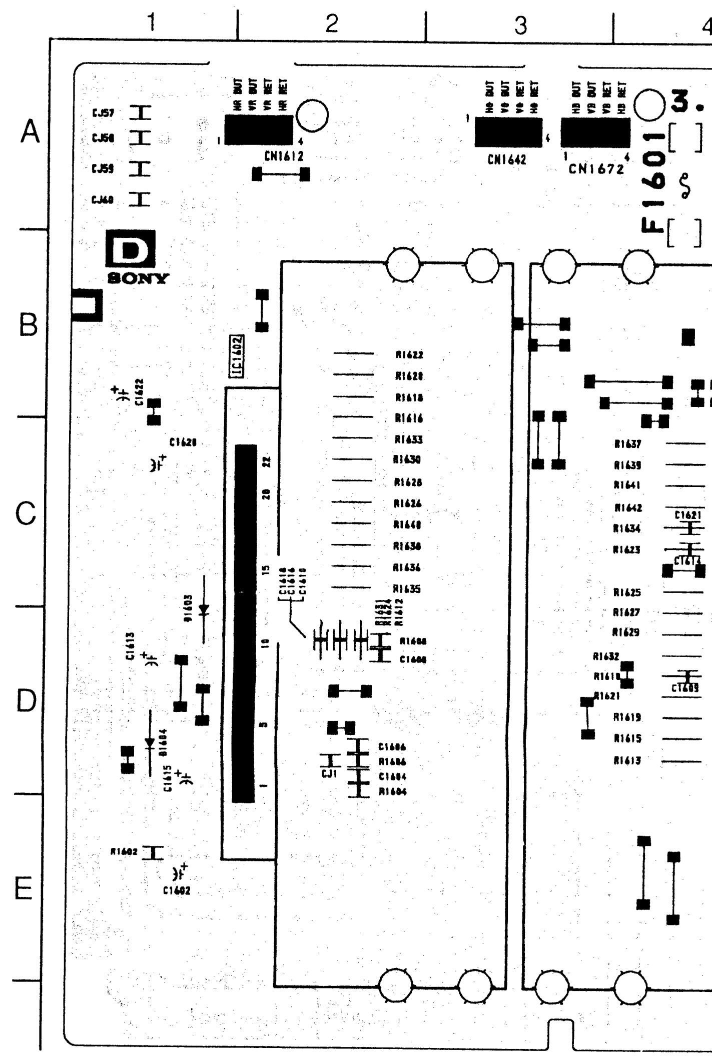
## D BOARD

| DIODE | |
|---|---|
| D1501 | B-8 |
| D1502 | B-8 |
| D1503 | B-8 |
| D1505 | A-5 |
| D1551 | C-6 |
| D1552 | A-6 |
| D1553 | A-6 |
| D1601 | E-4 |
| D1602 | E-5 |
| D1803 | C-9 |
| D1812 | B-5 |
| D1814 | B-5 |
| D1825 | D-6 |
| D1826 | D-5 |
| D1827 | D-8 |
| D1931 | C-7 |
| D1932 | C-7 |
| D1934 | C-7 |
| D1935 | C-7 |
| D1936 | C-11 |
| D1937 | C-10 |
| D1942 | D-7 |
| D1945 | D-10 |
| D1946 | D-10 |
| D1947 | D-10 |
| D1948 | C-7 |
| D1949 | D-10 |
| D1951 | D-7 |
| D1953 | C-10 |
| D1954 | D-10 |
| **IC** | |
| IC1501 | B-8 |
| IC1601 | D-4 |
| IC1602 | D-2 |
| IC1701 | B-10 |
| IC1702 | A-9 |
| IC1801 | E-7 |
| IC1802 | C-9 |
| IC1803 | C-5 |
| IC1804 | C-6 |
| IC1805 | E-8 |
| IC1806 | C-8 |
| IC1807 | E-5 |
| IC1808 | D-5 |
| IC1809 | E-10 |
| IC1931 | C-7 |
| IC1932 | C-10 |
| **TRANSISTOR** | |
| Q1501 | B-8 |
| Q1502 | B-9 |
| Q1551 | C-6 |
| Q1552 | C-6 |
| Q1701 | B-11 |
| Q1801 | D-6 |
| Q1802 | C-10 |
| Q1803 | B-5 |
| Q1804 | D-6 |
| Q1805 | D-5 |

## D

[RGB CONVERTER, REGI CONTROL]

- D BOARD -


1
2
3
4
A
B
C
D
E
CN1612
CN1642
CN1672
F1601
SONY
IC1602

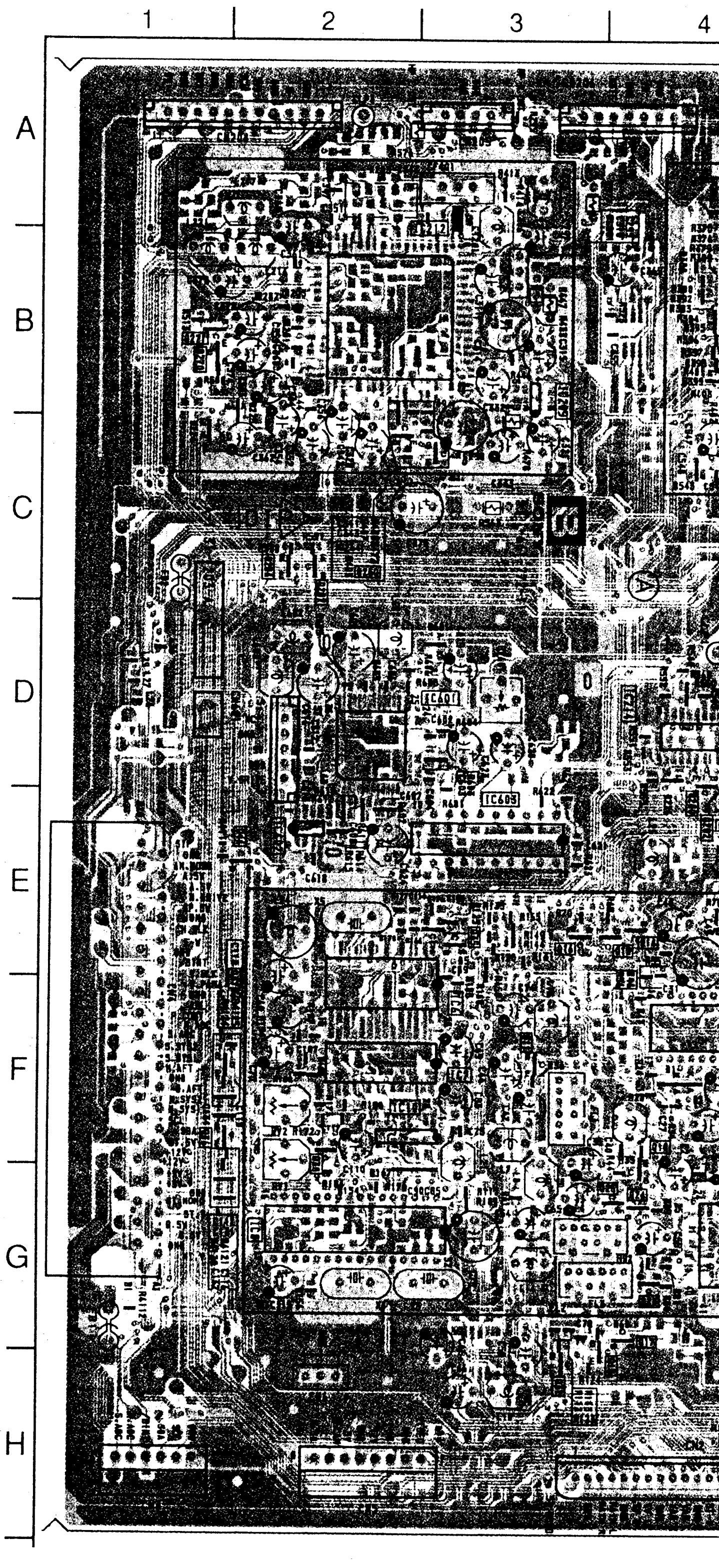
## B BOARD

| DIODE | | Q3 | G-9 | Q231 | D-8 |
|---|---|---|---|---|---|
| D1 | F-4 | Q6 | F-9 | Q232 | D-6 |
| D2 | F-4 | Q7 | F-10 | Q233 | D-8 |
| D3 | E-9 | Q8 | F-10 | Q234 | D-6 |
| D4 | G-11 | Q9 | F-10 | Q235 | D-6 |
| D5 | E-3 | Q10 | G-4 | Q236 | F-8 |
| D201 | G-8 | Q11 | F-3 | Q237 | E-6 |
| D202 | G-8 | Q12 | F-10 | Q238 | E-8 |
| D203 | G-8 | Q13 | G-4 | Q239 | E-8 |
| D204 | G-8 | Q14 | E-4 | Q240 | D-5 |
| D205 | G-8 | Q15 | E-4 | Q241 | E-6 |
| D206 | F-6 | Q16 | E-3 | Q242 | D-8 |
| D207 | F-5 | Q17 | G-4 | Q243 | D-9 |
| D208 | G-6 | Q18 | G-11 | Q244 | E-8 |
| D209 | E-6 | Q19 | F-11 | Q245 | D-8 |
| D210 | E-6 | Q20 | G-11 | Q246 | E-5 |
| D211 | B-5 | Q22 | G-10 | Q247 | A-11 |
| D212 | B-9 | Q23 | G-4 | Q248 | A-12 |
| D214 | D-8 | Q24 | G-4 | Q249 | B-11 |
| D215 | G-5 | Q25 | G-4 | Q250 | A-12 |
| D216 | D-8 | Q26 | G-11 | Q251 | A-12 |
| D217 | F-7 | Q27 | G-11 | Q252 | D-8 |
| D218 | E-6 | Q28 | F-11 | Q253 | B-11 |
| D220 | E-6 | Q29 | F-11 | Q254 | D-9 |
| D221 | D-6 | Q30 | G-10 | Q255 | E-5 |
| D222 | A-11 | Q32 | F-11 | Q256 | B-11 |
| D223 | D-9 | Q33 | E-11 | Q257 | D-9 |
| D224 | C-1 | Q34 | E-11 | Q258 | E-4 |
| D225 | C-2 | Q35 | E-3 | Q259 | E-4 |
| D226 | D-4 | Q36 | F-2 | Q260 | C-3 |
| D227 | E-4 | Q37 | F-2 | Q261 | C-11 |
| D601 | D-3 | Q38 | F-2 | Q262 | E-5 |
| D602 | D-11 | Q39 | E-11 | Q263 | A-11 |
| D603 | D-11 | Q40 | E-11 | Q264 | C-2 |
| **IC** | | Q41 | G-11 | Q265 | A-11 |
| IC1 | G-4 | Q42 | G-12 | Q266 | A-11 |
| IC2 | G-9 | Q201 | B-8 | Q267 | A-11 |
| IC3 | F-4,F-9 | Q202 | G-8 | Q268 | B-12 |
| IC4 | G-11 | Q203 | G-6 | Q269 | B-12 |
| IC5 | E-4 | Q204 | G-6 | Q270 | B-1 |
| IC6 | F-2 | Q205 | G-6 | Q271 | B-1 |
| IC7 | F-2 | Q206 | G-8 | Q272 | B-11 |
| IC8 | G-2,G-11 | Q207 | G-6 | Q273 | B-12 |
| IC9 | E-10 | Q208 | G-8 | Q274 | B-12 |
| IC10 | F-2 | Q209 | G-8 | Q275 | B-12 |
| IC201 | B-6 | Q210 | G-8 | Q277 | C-10 |
| IC202 | G-6 | Q211 | G-7 | Q278 | D-10 |
| IC203 | A-6 | Q212 | G-6 | Q279 | B-9 |
| IC204 | A-9 | Q213 | G-7 | Q280 | D-4 |
| IC205 | B-9 | Q214 | F-6 | Q281 | E-4 |
| IC206 | F-6,F-8 | Q215 | D-8 | Q282 | D-4 |
| IC207 | B-5 | Q216 | D-8 | Q283 | F-8 |
| IC208 | D-4,D-9 | Q217 | D-6 | Q284 | E-5 |
| IC209 | B-3 | Q218 | E-8 | Q285 | E-5 |
| IC210 | D-5 | Q219 | D-8 | Q286 | C-2 |
| IC211 | E-5 | Q220 | D-6 | Q287 | C-2 |
| IC212 | B-2 | Q221 | E-6 | Q601 | E-11 |
| IC213 | B-10 | Q222 | B-8 | Q602 | D-11 |
| IC214 | D-4 | Q223 | D-6 | **VARIABLE RESISTOR** | |
| IC601 | D-2 | Q225 | B-9 | | |
| IC602 | E-2 | Q226 | B-5 | RV-1 | F-2,F-11 |
| IC603 | E-3,E-11 | Q227 | D-8 | RV-2 | F-2,F-11 |
| **TRANSISTOR** | | Q228 | D-6 | RV601 | D-3,D-11 |
| Q1 | F-9 | Q229 | D-6 | | |
| Q2 | G-9 | Q230 | D-8 | | |

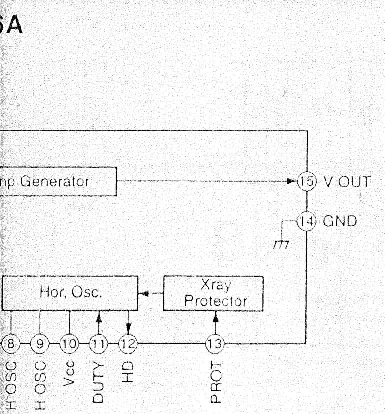
- B BOARD -

## B (1/3)

[2D COMB FILTER, MAIN
CHROMA DECODER, PI
PIP A/D & D/A CONVERT


1
2
3
4
A
B
C
D
E
F
G
H

< Component Si

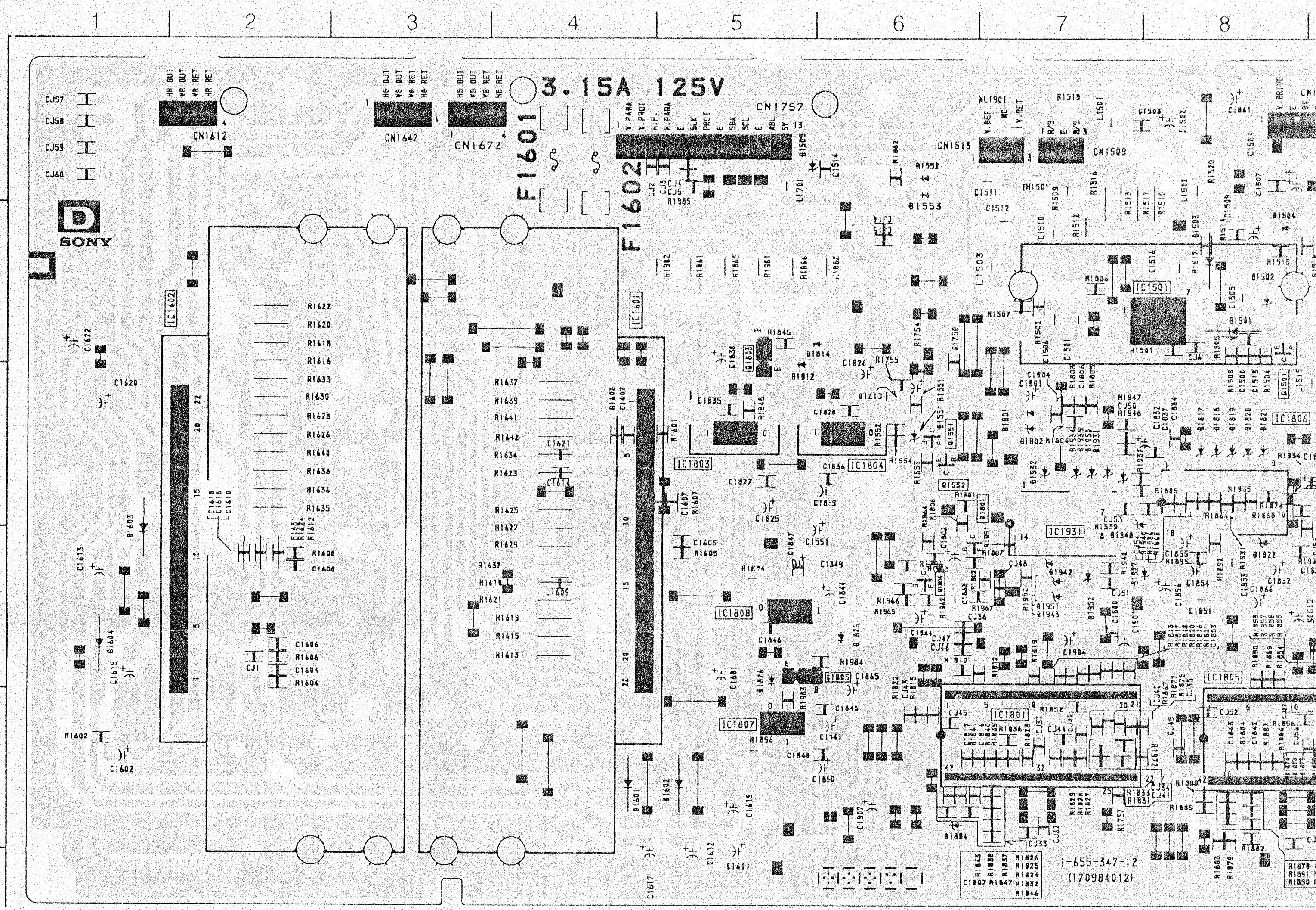

5A
mp Generator
15 V OUT
14 GND
Hor. Osc.
Xray Protector
8 9 10 11 12 13
H OSC
H OSC
Vcc
DUTY
HD
PROT

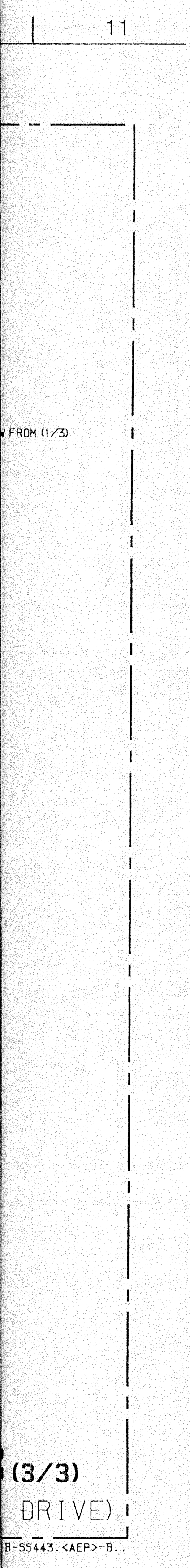
## D BOARD

| DIODE | |
|---|---|
| D1501 | B-8 |
| D1502 | B-8 |
| D1503 | B-8 |
| D1505 | A-5 |
| D1551 | C-6 |
| D1552 | A-6 |
| D1553 | A-6 |
| D1601 | E-4 |
| D1602 | E-5 |
| D1803 | C-9 |
| D1812 | B-5 |
| D1814 | B-5 |
| D1825 | D-6 |
| D1826 | D-5 |
| D1827 | D-8 |
| D1931 | C-7 |
| D1932 | C-7 |
| D1934 | C-7 |
| D1935 | C-7 |
| D1936 | C-11 |
| D1937 | C-10 |
| D1942 | D-7 |
| D1945 | D-10 |
| D1946 | D-10 |
| D1947 | D-10 |
| D1948 | C-7 |
| D1949 | D-10 |
| D1951 | D-7 |
| D1953 | C-10 |
| D1954 | D-10 |
| **IC** | |
| IC1501 | B-8 |
| IC1601 | D-4 |
| IC1602 | D-2 |
| IC1701 | B-10 |
| IC1702 | A-9 |
| IC1801 | E-7 |
| IC1802 | C-9 |
| IC1803 | C-5 |
| IC1804 | C-6 |
| IC1805 | E-8 |
| IC1806 | C-8 |
| IC1807 | E-5 |
| IC1808 | D-5 |
| IC1809 | E-10 |
| IC1931 | C-7 |
| IC1932 | C-10 |
| **TRANSISTOR** | |
| Q1501 | B-8 |
| Q1502 | B-9 |
| Q1551 | C-6 |
| Q1552 | C-6 |
| Q1701 | B-11 |
| Q1801 | D-6 |
| Q1802 | C-10 |
| Q1803 | B-5 |
| Q1804 | D-6 |
| Q1805 | D-5 |

**D** [RGB CONVERTER, REGI CONTROL]

– D BOARD –


1
2
3
4
5
6
7
8
A
B
C
D
E
3.15A 125V
F1601
F1602
SONY
CN1612
CN1642
CN1672
CN1757
CN1513
CN1509
IC1601
IC1602
IC1501
IC1803
IC1804
IC1931
IC1808
IC1807
IC1801
IC1805
IC1806
1-655-347-12
(170984012)


11
W FROM (1/3)
(3/3)
DRIVE)
B-55443.<AEP>-B..

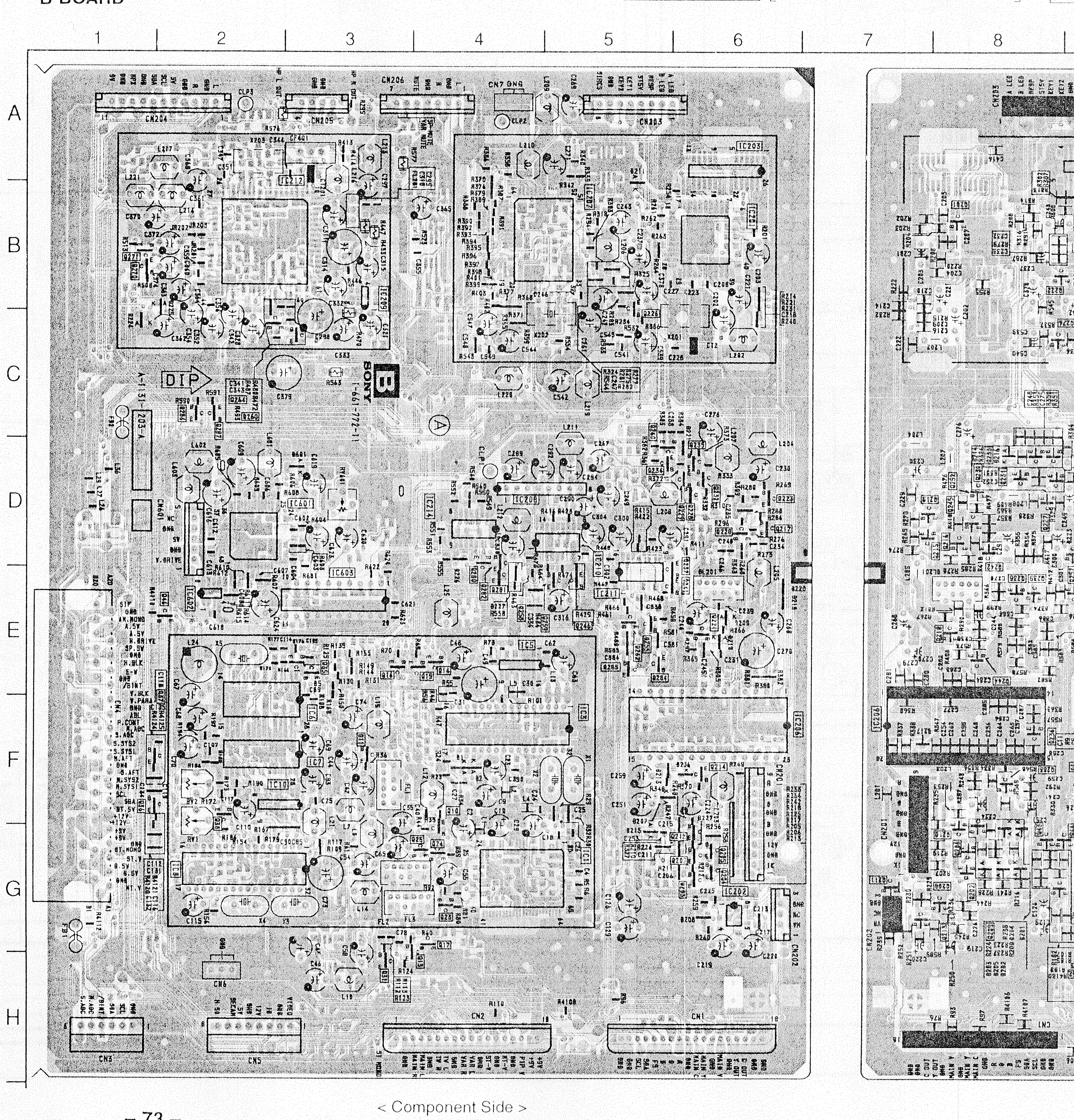
## B BOARD

| DIODE | | Q3 | G-9 | Q231 | D-8 |
|---|---|---|---|---|---|
| D1 | F-4 | Q6 | F-9 | Q232 | D-6 |
| D2 | F-4 | Q7 | F-10 | Q233 | D-8 |
| D3 | E-9 | Q8 | F-10 | Q234 | D-6 |
| D4 | G-11 | Q9 | F-10 | Q235 | D-6 |
| D5 | E-3 | Q10 | G-4 | Q236 | F-8 |
| D201 | G-8 | Q11 | F-3 | Q237 | E-6 |
| D202 | G-8 | Q12 | F-10 | Q238 | E-8 |
| D203 | G-8 | Q13 | G-4 | Q239 | E-8 |
| D204 | G-8 | Q14 | E-4 | Q240 | D-5 |
| D205 | G-8 | Q15 | E-4 | Q241 | E-6 |
| D206 | F-6 | Q16 | E-3 | Q242 | D-8 |
| D207 | F-5 | Q17 | G-4 | Q243 | D-9 |
| D208 | G-6 | Q18 | G-11 | Q244 | E-8 |
| D209 | E-6 | Q19 | F-11 | Q245 | D-8 |
| D210 | E-6 | Q20 | G-11 | Q246 | E-5 |
| D211 | B-5 | Q22 | G-10 | Q247 | A-11 |
| D212 | B-9 | Q23 | G-4 | Q248 | A-12 |
| D214 | D-8 | Q24 | G-4 | Q249 | B-11 |
| D215 | G-5 | Q25 | G-4 | Q250 | A-12 |
| D216 | D-8 | Q26 | G-11 | Q251 | A-12 |
| D217 | F-7 | Q27 | G-11 | Q252 | D-8 |
| D218 | E-6 | Q28 | F-11 | Q253 | B-11 |
| D220 | E-6 | Q29 | F-11 | Q254 | D-9 |
| D221 | D-6 | Q30 | G-10 | Q255 | E-5 |
| D222 | A-11 | Q32 | F-11 | Q256 | B-11 |
| D223 | D-9 | Q33 | E-11 | Q257 | D-9 |
| D224 | C-1 | Q34 | E-11 | Q258 | E-4 |
| D225 | C-2 | Q35 | E-3 | Q259 | E-4 |
| D226 | D-4 | Q36 | F-2 | Q260 | C-3 |
| D227 | E-4 | Q37 | F-2 | Q261 | C-11 |
| D601 | D-3 | Q38 | F-2 | Q262 | E-5 |
| D602 | D-11 | Q39 | E-11 | Q263 | A-11 |
| D603 | D-11 | Q40 | E-11 | Q264 | C-2 |
| **IC** | | Q41 | G-11 | Q265 | A-11 |
| IC1 | G-4 | Q42 | G-12 | Q266 | A-11 |
| IC2 | G-9 | Q201 | B-8 | Q267 | A-11 |
| IC3 | F-4,F-9 | Q202 | G-8 | Q268 | B-12 |
| IC4 | G-11 | Q203 | G-6 | Q269 | B-12 |
| IC5 | E-4 | Q204 | G-6 | Q270 | B-1 |
| IC6 | F-2 | Q205 | G-6 | Q271 | B-1 |
| IC7 | F-2 | Q206 | G-8 | Q272 | B-11 |
| IC8 | G-2,G-11 | Q207 | G-6 | Q273 | B-12 |
| IC9 | E-10 | Q208 | G-8 | Q274 | B-12 |
| IC10 | F-2 | Q209 | G-8 | Q275 | B-12 |
| IC201 | B-6 | Q210 | G-8 | Q277 | C-10 |
| IC202 | G-6 | Q211 | G-7 | Q278 | D-10 |
| IC203 | A-6 | Q212 | G-6 | Q279 | B-9 |
| IC204 | A-9 | Q213 | G-7 | Q280 | D-4 |
| IC205 | B-9 | Q214 | F-6 | Q281 | E-4 |
| IC206 | F-6,F-8 | Q215 | D-8 | Q282 | D-4 |
| IC207 | B-5 | Q216 | D-8 | Q283 | F-8 |
| IC208 | D-4,D-9 | Q217 | D-6 | Q284 | E-5 |
| IC209 | B-3 | Q218 | E-8 | Q285 | E-5 |
| IC210 | D-5 | Q219 | D-8 | Q286 | C-2 |
| IC211 | E-5 | Q220 | D-6 | Q287 | C-2 |
| IC212 | B-2 | Q221 | E-6 | Q601 | E-11 |
| IC213 | B-10 | Q222 | B-8 | Q602 | D-11 |
| IC214 | D-4 | Q223 | D-6 | **VARIABLE RESISTOR** | |
| IC601 | D-2 | Q225 | B-9 | | |
| IC602 | E-2 | Q226 | B-5 | RV-1 | F-2,F-11 |
| IC603 | E-3,E-11 | Q227 | D-8 | RV-2 | F-2,F-11 |
| **TRANSISTOR** | | Q228 | D-6 | RV601 | D-3,D-11 |
| Q1 | F-9 | Q229 | D-6 | | |
| Q2 | G-9 | Q230 | D-8 | | |

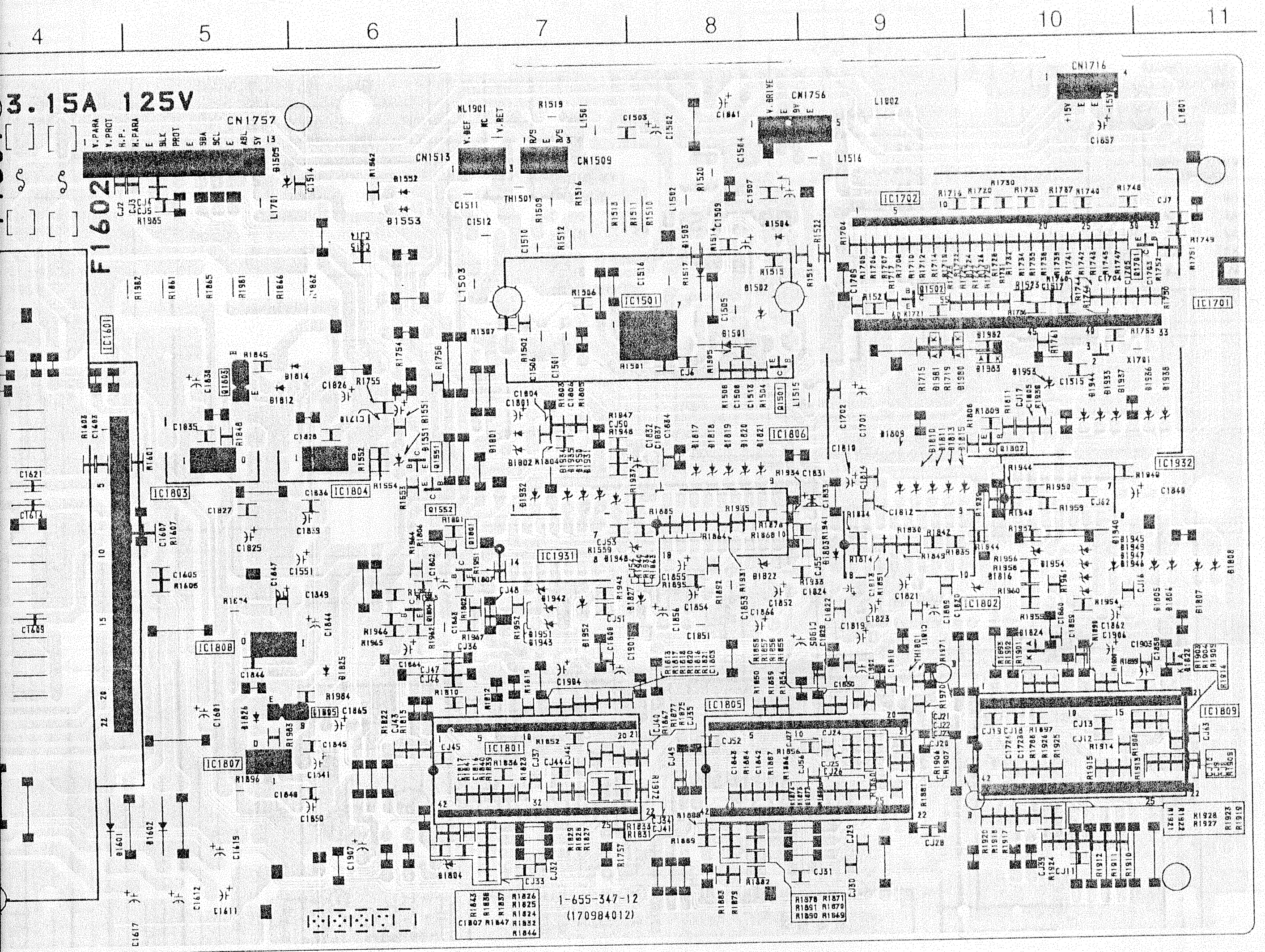
**B (1/3)** [2D COMB FILTER, MAIN/SUB CHROMA DECODER, PIP/EXT RGB SW, PIP A/D & D/A CONVERTER]

**B (2/3)** [AUDIO/TEXT PROCESSOR, SYSTEM CONTROL, RGB MATRIX]

– B BOARD –


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
B
SONY
DIP
CN204
CN205
CN206
CN203
CN7 GND
CN6
CN3
CN5
CN2
CN1
CN202
IC203
IC601
IC603
IC206
IC202

< Component Side >

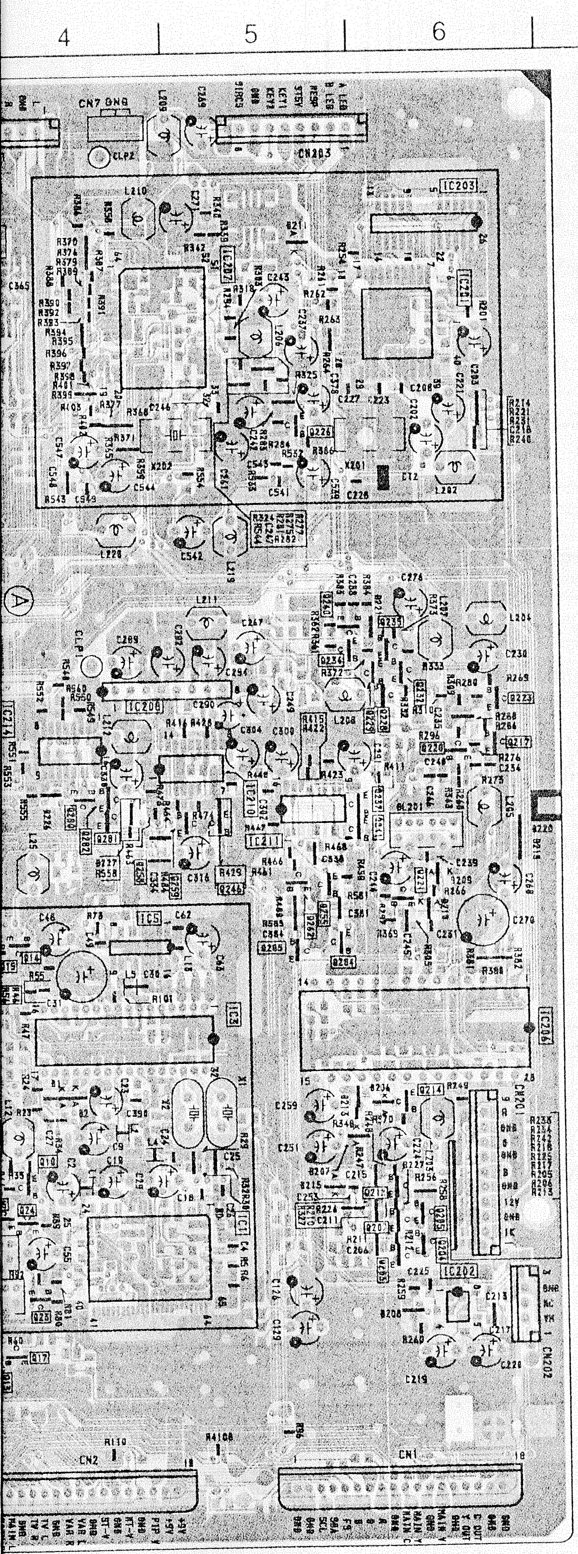

4
5
6
7
8
9
10
11
3.15A 125V
F1602
CN1757
CN1756
CN1716
IC1501
IC1701
IC1702
IC1801
IC1805
IC1809
1-655-347-12
(170984012)

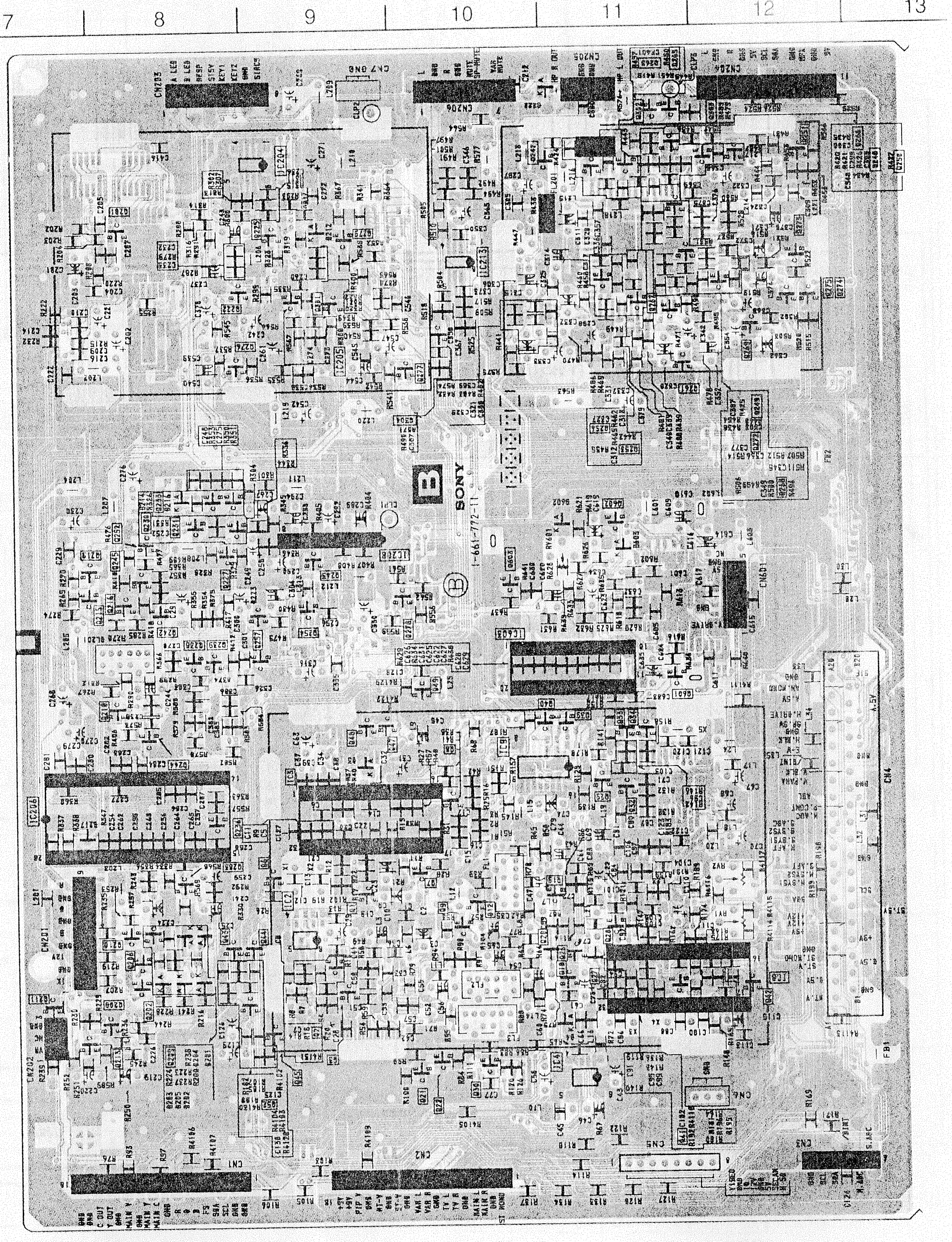
R, MAIN/SUB
DER, PIP/EXT RGB SW,
ONVERTER

**B (2/3)** [AUDIO/TEXT PROCESSOR, SYSTEM CONTROL, RGB MATRIX]

**B (3/3)** [H/V DRIVE]

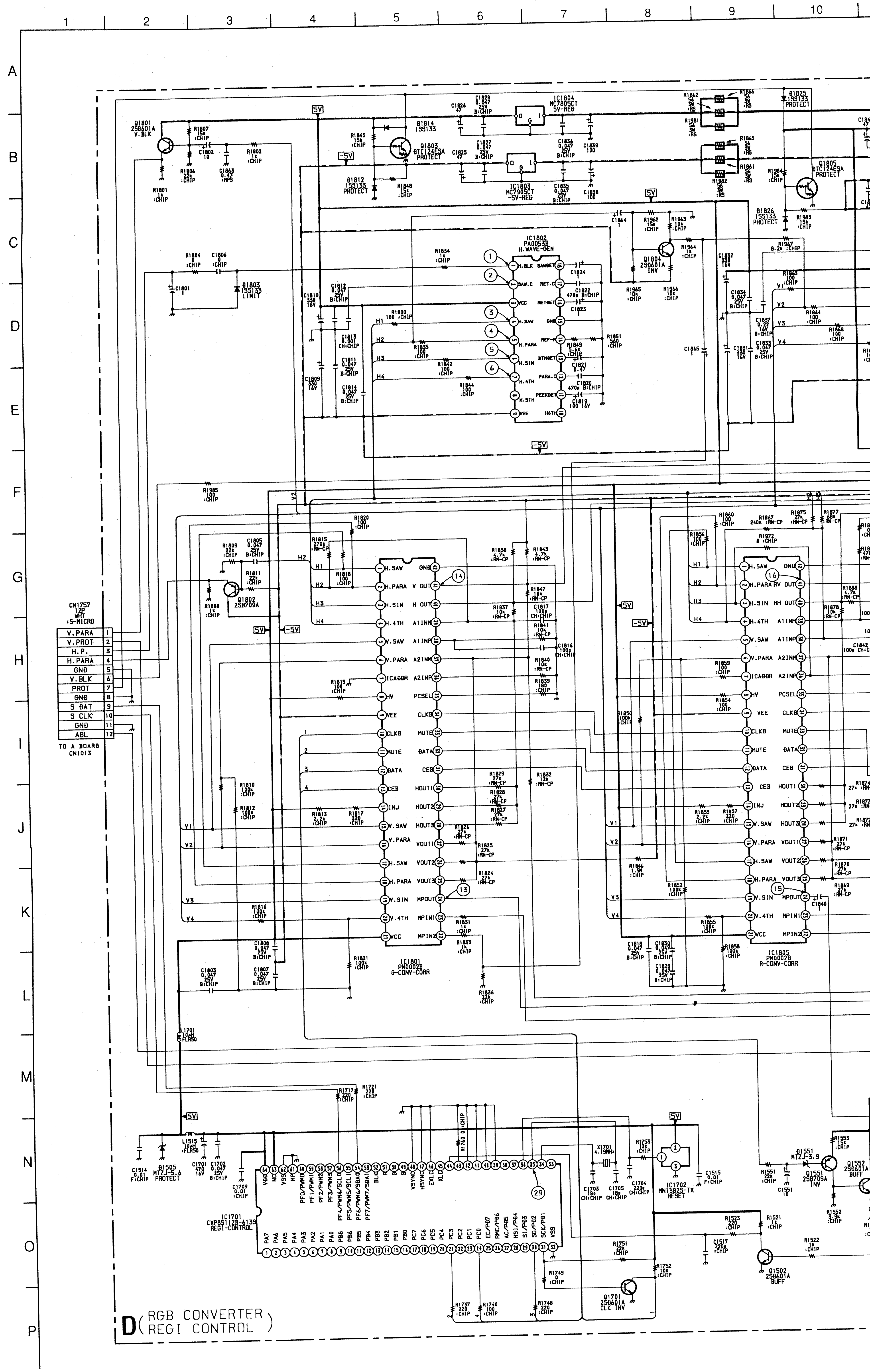
NOTE:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.


4
5
6
CN203
IC203
IC202
CN2
CN1

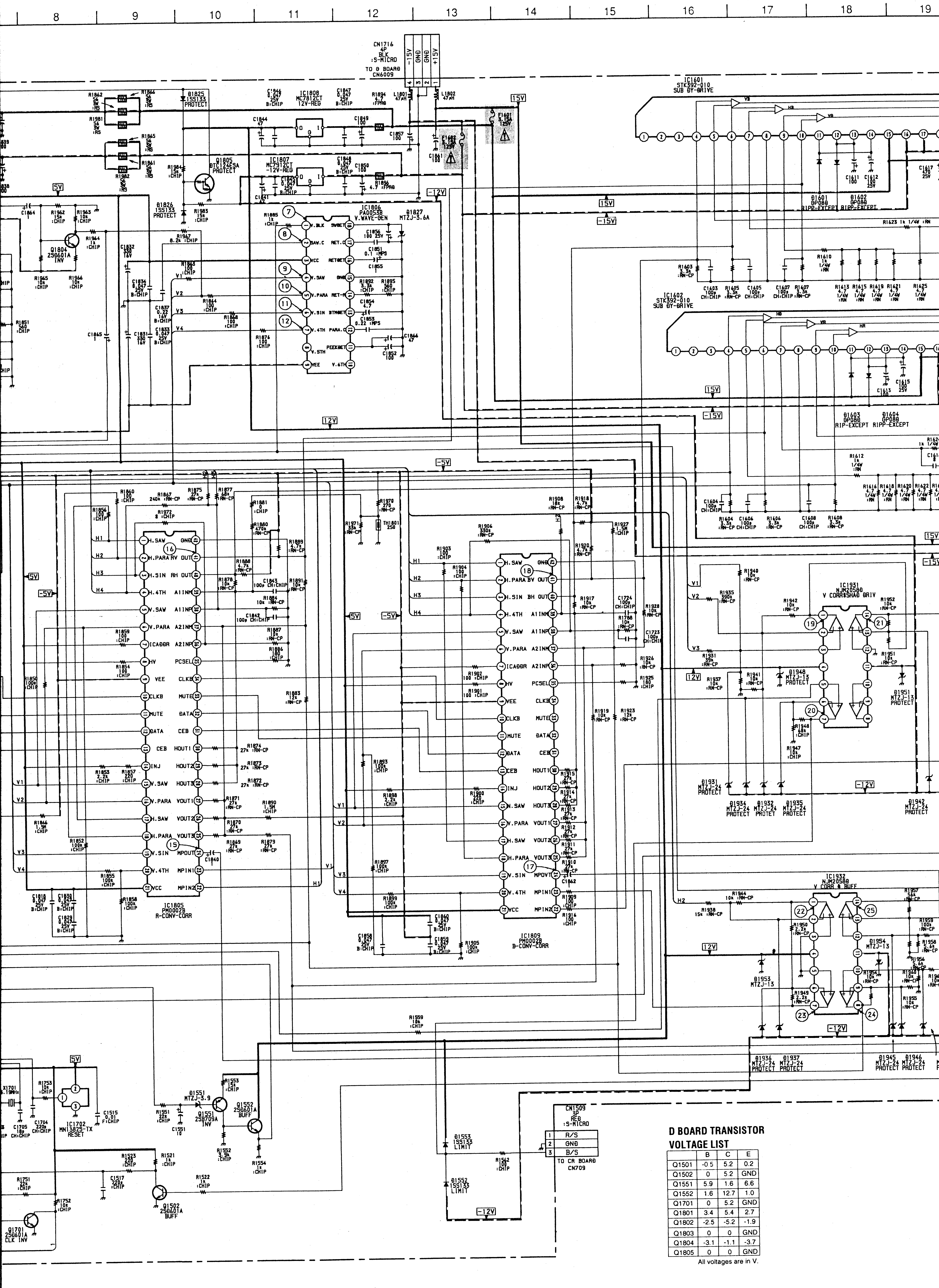

7
8
9
10
11
12
13
B
SONY
1-661-772-11
CN1
CN2
CN3
CN4

mponent Side >

< Conductor Side >


1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q1801 2SD601A V.BLK
IC1804 MC7805CT 5V-REG
IC1803 MC7905CT -5V-REG
Q1803 DTC124ESA PROTECT
D1814 1SS133
D1812 1SS133 PROTECT
D1825 1SS133 PROTECT
D1826 1SS133 PROTECT
Q1805 DTC124ESA PROTECT
IC1802 PA0053B H.WAVE-GEN
Q1804 2SD601A INV
D1803 1SS133 LIMIT
Q1802 2SB709A
CN1757 12P WHT :S-MICRO
V.PARA
V.PROT
H.P.
H.PARA
GND
V.BLK
PROT
GND
S DAT
S CLK
GND
ABL
TO A BOARD CN1013
IC1801 PM0002B G-CONV-CORR
IC1805 PM0002B R-CONV-CORR
L1701 10µH :FLR50
L1515 10µH :FLR50
D1505 MTZJ-5.6 PROTECT
IC1701 CXP85112B-613S REGI-CONTROL
X1701 4.19MHz
IC1702 MN13825-TX RESET
Q1701 2SD601A CLK INV
D1551 MTZJ-3.9
Q1551 2SB709A INV
Q1552 2SD601A BUFF
Q1502 2SD601A BUFF
5V
-5V

D (RGB CONVERTER REGI CONTROL)

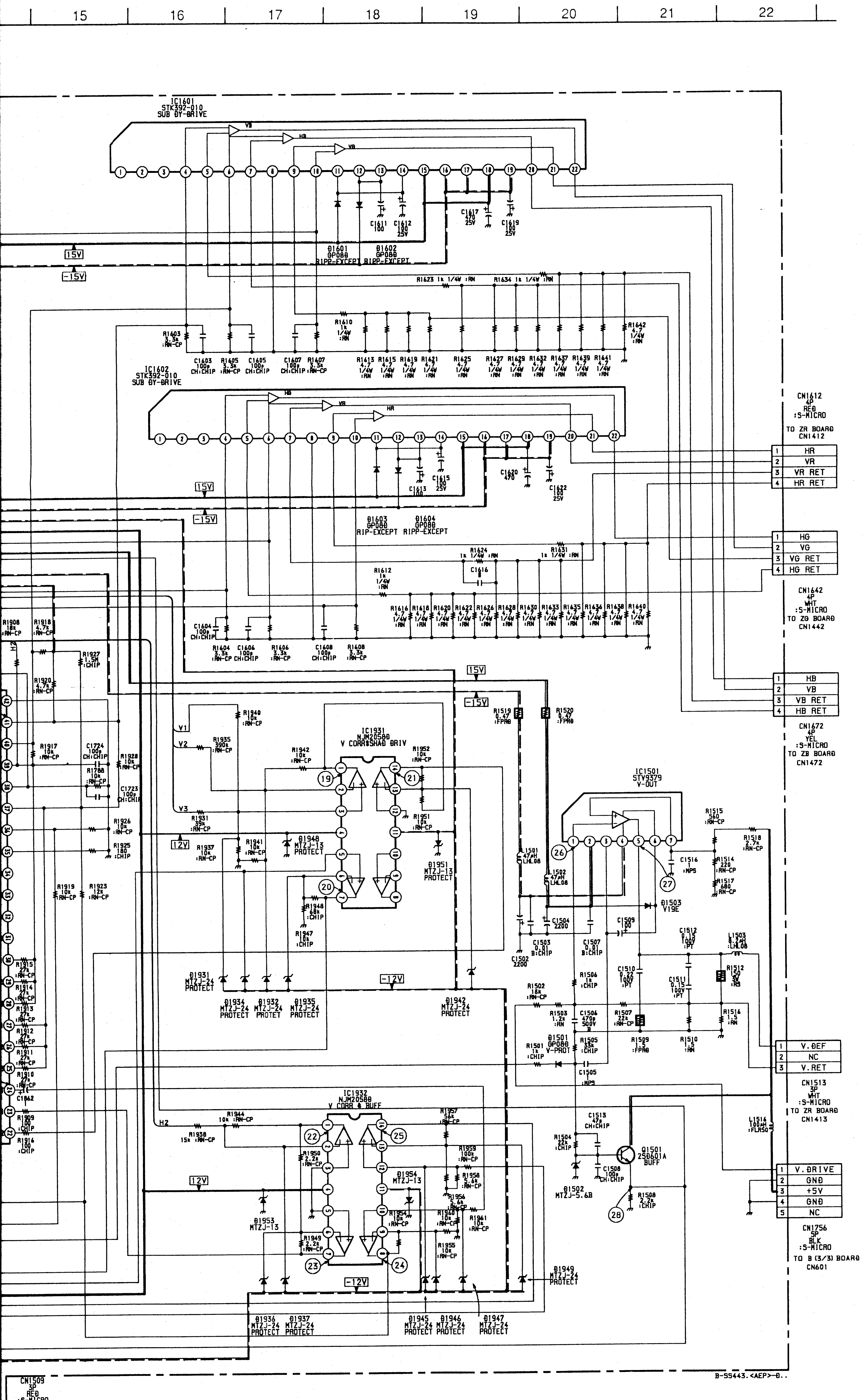


8
9
10
11
12
13
14
15
16
17
18
19
CN1716 4P BLK :S-MICRO TO G BOARD CN6009
-15V
GND
GND
+15V
IC1601 STK392-010 SUB DY-DRIVE
IC1602 STK392-010 SUB DY-DRIVE
IC1808 MC7812CT 12V-REG
IC1807 MC7912CT -12V-REG
IC1806 PA0053B V.WAVE-GEN
Q1825 1SS133 PROTECT
Q1826 1SS133 PROTECT
Q1805 DTC124ESA PROTECT
Q1804 2SA601A INV
Q1827 MTZJ-3.6A
F1601 3.15A 125V
F1602 3.15A 125V
Q1601 GP08D RIPP-EXCEPT
Q1602 GP08D RIPP-EXCEPT
Q1603 GP08D RIP-EXCEPT
Q1604 GP08D RIPP-EXCEPT
IC1805 PM0002B R-CONV-CORR
IC1809 PM0002B B-CONV-CORR
IC1931 NJM2058D V CORR&SHAG DRIV
IC1932 NJM2058D V CORR & BUFF
Q1931 MTZJ-24 PROTECT
Q1934 MTZJ-24 PROTECT
Q1932 MTZJ-24 PROTECT
Q1935 MTZJ-24 PROTECT
Q1942 MTZJ-24 PROTECT
Q1948 MTZJ-13 PROTECT
Q1951 MTZJ-13 PROTECT
Q1953 MTZJ-13
Q1954 MTZJ-13
Q1936 MTZJ-24 PROTECT
Q1937 MTZJ-24 PROTECT
Q1945 MTZJ-24 PROTECT
Q1946 MTZJ-24 PROTECT
IC1702 MN13825-TX RESET
Q1701 2SA601A CLK INV
X1701
Q1551 MTZJ-3.9
Q1551 2SB709A INV
Q1552 2SA601A BUFF
Q1502 2SA601A BUFF
Q1553 1SS133 LIMIT
Q1552 1SS133 LIMIT
CN1509 3P RED :S-MICRO
R/S
GND
B/S
TO CR BOARD CN709
5V
-5V
12V
-12V
15V
-15V

## D BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q1501 | -0.5 | 5.2 | 0.2 |
| Q1502 | 0 | 5.2 | GND |
| Q1551 | 5.9 | 1.6 | 6.6 |
| Q1552 | 1.6 | 12.7 | 1.0 |
| Q1701 | 0 | 5.2 | GND |
| Q1801 | 3.4 | 5.4 | 2.7 |
| Q1802 | -2.5 | -5.2 | -1.9 |
| Q1803 | 0 | 0 | GND |
| Q1804 | -3.1 | -1.1 | -3.7 |
| Q1805 | 0 | 0 | GND |

All voltages are in V.


15
16
17
18
19
20
21
22
IC1601
STK392-010
SUB DY-DRIVE
VB
HB
VB
C1611 100
C1612 100 25V
C1617 470 25V
C1619 100 25V
D1601 GP08D RIPP-EXCEPT
D1602 GP08D RIPP-EXCEPT
15V
-15V
R1623 1k 1/4W :RN
R1634 1k 1/4W :RN
R1603 3.3k :RN-CP
R1610 1k 1/4W :RN
R1642 4.7 1/4W :RN
C1603 100p CH:CHIP
R1605 3.3k :RN-CP
C1605 100p CH:CHIP
C1607 100p CH:CHIP
R1607 3.3k :RN-CP
IC1602
STK392-010
SUB DY-DRIVE
HB
VR
HR
C1613 100
C1615 100 25V
C1620 470
C1622 100 25V
D1603 GP08D RIP-EXCEPT
D1604 GP08D RIPP-EXCEPT
R1624 1k 1/4W :RN
R1631 1k 1/4W :RN
R1612 1k 1/4W :RN
C1616
C1604 CH:CHIP
R1604 3.3k :RN-CP
C1606 100p CH:CHIP
R1606 3.3k :RN-CP
C1608 100p CH:CHIP
R1608 3.3k :RN-CP
CN1612 4P RED :S-MICRO
TO ZR BOARD CN1412
1 HR
2 VR
3 VR RET
4 HR RET
1 HG
2 VG
3 VG RET
4 HG RET
CN1642 4P WHT :S-MICRO
TO ZG BOARD CN1442
1 HB
2 VB
3 VB RET
4 HB RET
CN1672 4P YEL :S-MICRO
TO ZB BOARD CN1472
15V
-15V
R1519 0.47 :FPRD
R1520 0.47 :FPRD
IC1931
NJM2058D
V CORR&SHAD DRIV
V1
V2
V3
R1940 10k :RN-CP
R1935 390k :RN-CP
R1942 10k :RN-CP
R1952 10k :RN-CP
R1931 39k :RN-CP
R1951 10k :RN-CP
12V
R1937 10k :RN-CP
R1941 10k :RN-CP
D1948 MTZJ-13 PROTECT
D1951 MTZJ-13 PROTECT
R1948 68k :CHIP
R1947 10k :CHIP
D1931 MTZJ-24 PROTECT
D1934 MTZJ-24 PROTECT
D1932 MTZJ-24 PROTECT
D1935 MTZJ-24 PROTECT
-12V
D1942 MTZJ-24 PROTECT
IC1501
STV9379
V-OUT
L1501 47μH LHL08
L1502 47μH LHL08
C1503 0.01 B:CHIP
C1502 2200
C1504 2200
C1507 0.01 B:CHIP
C1509 100
D1503 V19E
C1516 :NPS
R1515 560 :RN-CP
R1518 2.7k :RN-CP
R1514 220 :RN-CP
R1517 680 :RN-CP
C1512 0.15 100V :PT
L1503 8.2μH :LHL08
C1510 0.22 100V :PT
C1511 0.15 100V :PT
R1512 :RS
R1516 1.5 :RN
R1506 1k :CHIP
R1502 18k :RN-CP
R1503 1.2k :RN
C1506 470p 500V
R1507 22k :RN-CP
R1509 :FPRD
R1510 :RN
D1501 GP08D V-PROT
R1501 1k :CHIP
R1505 33k :CHIP
C1505 :NPS
1 V.DEF
2 NC
3 V.RET
CN1513 3P WHT :S-MICRO
TO ZR BOARD CN1413
L1516 100μH :FLR50
IC1932
NJM2058D
V CORR & BUFF
H2
R1944 10k :RN-CP
R1938 15k :RN-CP
R1950 2.2k :RN-CP
R1957 56k :RN-CP
R1959 100k :RN-CP
R1958 5.6k :RN-CP
R1956 5.6k :RN-CP
D1954 MTZJ-13
R1954 10k :RN-CP
R1960 10k :RN-CP
R1961 10k :RN-CP
R1955 10k :RN-CP
R1949 2.2k :RN-CP
D1953 MTZJ-13
12V
-12V
C1513 47p CH:CHIP
R1504 22k :CHIP
C1508 100p CH:CHIP
Q1501 2SD601A BUFF
D1502 MTZJ-5.6B
R1508 2.2k :CHIP
1 V.DRIVE
2 GND
3 +5V
4 GND
5 NC
CN1756 5P BLK :S-MICRO
TO B (3/3) BOARD CN601
D1949 MTZJ-24 PROTECT
D1936 MTZJ-24 PROTECT
D1937 MTZJ-24 PROTECT
D1945 MTZJ-24 PROTECT
D1946 MTZJ-24 PROTECT
D1947 MTZJ-24 PROTECT
R1908 18k :RN-CP
R1918 4.7k :RN-CP
R1927 1.5M :CHIP
R1920 4.7k :RN-CP
R1917 10k :RN-CP
C1724 100p CH:CHIP
R1788 10k :RN-CP
R1928 10k :RN-CP
C1723 100p CH:CHIP
R1926 10k :RN-CP
R1925 180 :CHIP
R1919 10k :RN-CP
R1923 12k :RN-CP
R1915 27k :RN-CP
R1914 18k :RN-CP
R1913 27k :RN-CP
R1912 27k :RN-CP
R1911 27k :RN-CP
R1910 47k :RN-CP
C1842
R1909 100 :CHIP
R1916 100 :CHIP
B-55443.<AEP>-D..
CN1509 3P RED :S-MICRO
R/S
GND
B/S
TO CR BOARD CN709

## D BOARD IC VOLTAGE LIST

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| IC1501 | 1 | 1.2 | | 56 | 4.9 | | 17 | 1.4 | |
| | 2 | 14.8 | | 58 | 0 | | 18 | -1.6 | |
| | 3 | -13.3 | | 59 | 0 | IC1803 | I | -11.4 | IC18 |
| | 4 | -14.7 | | 60 | 0 | | G | GND | |
| | 5 | 0.5 | | 61 | GND | | O | -5.2 | |
| | 6 | 14.8 | | 62 | GND | IC1804 | I | 11.9 | IC18 |
| | 7 | 1.2 | | 63 | 5.3 | | G | GND | |
| IC1601 | 1 | -13.1 | | 64 | 5.3 | | O | 5.4 | |
| | 2 | -13.1 | IC1702 | 1 | 5.4 | IC1805 | 1 | 0 | |
| | 3 | -13.1 | | 2 | 5.3 | | 2 | -0.8 | |
| | 4 | 0 | | 3 | GND | | 3 | 0 | |
| | 5 | 0 | IC1801 | 1 | 0 | | 4 | -1.2 | |
| | 6 | 0.2 | | 2 | -0.9 | | 5 | 0 | |
| | 7 | 0.2 | | 3 | 0 | | 6 | -0.4 | |
| | 8 | 0 | | 4 | -1.2 | | 7 | 5.4 | |
| | 9 | 0 | | 5 | 0 | | 8 | 5.4 | |
| | 10 | 0 | | 6 | -0.4 | | 9 | -5.2 | |
| | 11 | 14.2 | | 7 | 0 | | 10 | 5.2 | |
| | 12 | -14.1 | | 8 | 5.4 | | 11 | 5.4 | |
| | 13 | -14.1 | | 9 | -5.2 | | 12 | 0 | |
| | 14 | 14.2 | | 10 | 5.2 | | 13 | 5.2 | |
| | 15 | 14.8 | | 11 | 5.4 | | 14 | -2.1 | |
| | 16 | -14.7 | | 12 | 0.2 | | 15 | 0 | |
| | 17 | -14.7 | | 13 | 5.2 | | 16 | -0.8 | |
| | 18 | 14.8 | | 14 | -2.1 | | 17 | 0 | |
| | 19 | -14.7 | | 15 | 0 | | 18 | -0.8 | |
| | 20 | 0.4 | | 16 | -0.9 | | 19 | 0 | |
| | 21 | 0.2 | | 17 | 0 | | 20 | -0.5 | |
| | 22 | 0 | | 18 | -0.9 | | 21 | 5.4 | |
| IC1602 | 1 | -13.0 | | 19 | 0 | | 22 | 0 | |
| | 2 | -13.0 | | 20 | -0.5 | | 23 | 0 | |
| | 3 | -13.0 | | 21 | 5.3 | | 24 | 0 | |
| | 4 | 0.2 | | 22 | 0 | | 25 | -0.4 | |
| | 5 | 0 | | 23 | 1.0 | | 26 | 0 | |
| | 6 | 0.3 | | 24 | 0 | | 27 | 0 | |
| | 7 | 0.3 | | 25 | 0 | | 28 | 0 | |
| | 8 | 0 | | 26 | 0 | | 29 | 0 | |
| | 9 | -0.2 | | 27 | 0 | | 30 | -0.5 | |
| | 10 | -0.1 | | 28 | 0 | | 31 | 5.2 | |
| | 11 | 14.2 | | 29 | 0 | | 32 | 0 | |
| | 12 | -14.1 | | 30 | 0 | | 33 | 5.4 | |
| | 13 | -14.1 | | 31 | 5.2 | | 34 | 5.2 | |
| | 14 | 14.2 | | 32 | 0.2 | | 35 | 0 | |
| | 15 | 14.8 | | 33 | 5.4 | | 36 | 0 | IC19 |
| | 16 | -14.8 | | 34 | 5.2 | | 37 | 0 | |
| | 17 | -14.8 | | 35 | 0 | | 38 | 0 | |
| | 18 | 14.8 | | 36 | 0 | | 39 | 0 | |
| | 19 | -14.7 | | 37 | 0 | | 40 | -0.2 | |
| | 20 | 0.4 | | 38 | 0 | | 41 | 0.3 | |
| | 21 | -0.2 | | 39 | 0 | | 42 | GND | |
| | 22 | 0.2 | | 40 | 0.2 | IC1806 | 1 | 0.2 | |
| IC1701 | 21 | 5.4 | | 41 | 0 | | 2 | 1.4 | |
| | 24 | 5.2 | | 42 | GND | | 3 | 5.3 | |
| | 30 | 0.2 | IC1802 | 1 | 0.6 | | 4 | 0 | |
| | 31 | 0.2 | | 2 | 1.4 | | 5 | -0.9 | IC19 |
| | 32 | GND | | 3 | 5.3 | | 6 | 0 | |
| | 34 | 2.7 | | 4 | 0 | | 7 | -1.1 | |
| | 35 | 2.4 | | 5 | -0.9 | | 8 | 0 | |
| | 36 | 5.4 | | 6 | 0 | | 9 | -5.2 | |
| | 39 | 0 | | 7 | -1.1 | | 10 | 0.2 | |
| | 40 | 0 | | 8 | 0 | | 11 | 0.6 | |
| | 41 | 0 | | 9 | -5.2 | | 12 | -0.9 | |
| | 42 | 0 | | 10 | 0.3 | | 13 | 0.3 | |
| | 43 | 0 | | 11 | 0.6 | | 14 | 1.3 | |
| | 44 | 4.7 | | 12 | -0.9 | | 15 | GND | |
| | 46 | 0 | | 13 | 0.5 | | 16 | -1.7 | |
| | 47 | 0 | | 14 | 1.3 | | 17 | 1.4 | |
| | 48 | 0 | | 15 | GND | | 18 | -1.7 | |
| | 54 | 4.9 | | 16 | -0.7 | IC1807 | I | -14.6 | |

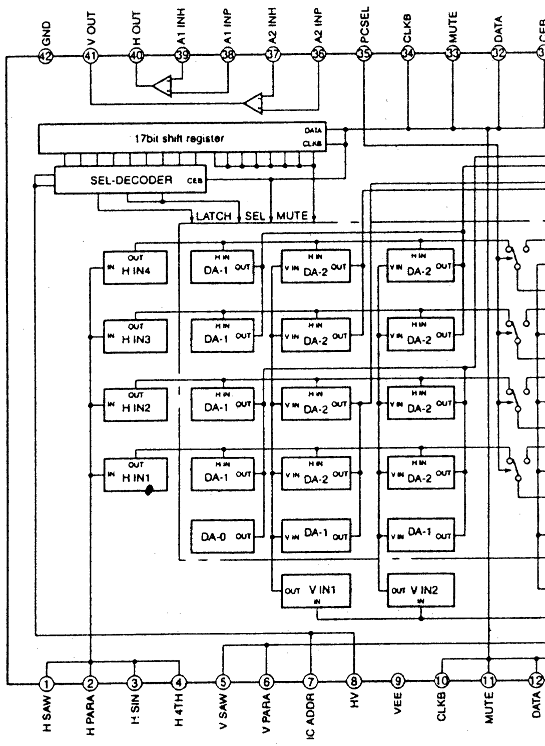
A
Pin num
desc

## D BOARD TRANSISTOR VOLTAGE LIST

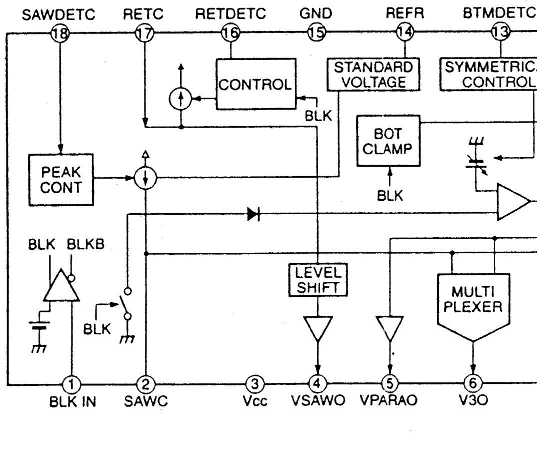
| | B | C | E |
|---|---|---|---|
| Q1501 | -0.5 | 5.2 | 0.2 |
| Q1502 | 0 | 5.2 | GND |
| Q1551 | 5.9 | 1.6 | 6.6 |
| Q1552 | 1.6 | 12.7 | 1.0 |
| Q1701 | 0 | 5.2 | GND |
| Q1801 | 3.4 | 5.4 | 2.7 |
| Q1802 | -2.5 | -5.2 | -1.9 |
| Q1803 | 0 | 0 | GND |
| Q1804 | -3.1 | -1.1 | -3.7 |
| Q1805 | 0 | 0 | GND |

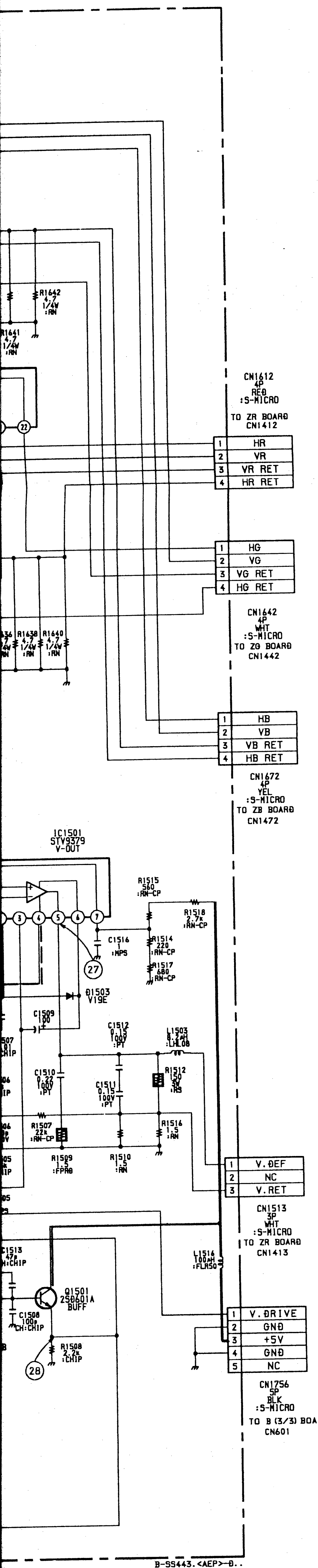
All voltages are in V.

## D BOARD : IC1801, 1805, 1809 PM0002B


GND
V OUT
H OUT
A1 INH
A1 INP
A2 INH
A2 INP
PCSEL
CLKB
MUTE
DATA
CEB
42
41
40
39
38
37
36
35
34
33
32
17bit shift register
DATA
CLKB
SEL-DECODER
CEB
LATCH
SEL
MUTE
H IN4
H IN3
H IN2
H IN1
DA-1
DA-2
DA-0
DA-1
V IN1
V IN2
1
2
3
4
5
6
7
8
9
10
11
12
H SAW
H PARA
H SIN
H 4TH
V SAW
V PARA
IC ADDR
HV
VEE
CLKB
MUTE
DATA

## D BOARD : IC1802, 1806 PA0053B


SAWDETC
RETC
RETDETC
GND
REFR
BTMDETC
18
17
16
15
14
13
CONTROL
STANDARD VOLTAGE
SYMMETRIC CONTROL
BLK
BOT CLAMP
PEAK CONT
BLK
BLK BLKB
LEVEL SHIFT
MULTI PLEXER
BLK
1
2
3
4
5
6
BLK IN
SAWC
Vcc
VSAWO
VPARAO
V3O

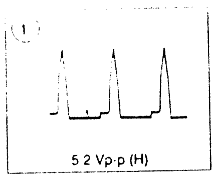

R1642
4.7
1/4W
:RN
R1641
4.7
1/4W
:RN
22
CN1612
4P
RED
:S-MICRO
TO ZR BOARD
CN1412
1 HR
2 VR
3 VR RET
4 HR RET
1 HG
2 VG
3 VG RET
4 HG RET
R1638
4.7
1/4W
:RN
R1640
4.7
1/4W
:RN
CN1642
4P
WHT
:S-MICRO
TO ZG BOARD
CN1442
1 HB
2 VB
3 VB RET
4 HB RET
CN1672
4P
YEL
:S-MICRO
TO ZB BOARD
CN1472
IC1501
STV9379
V-OUT
R1515
560
:RN-CP
R1518
2.7k
:RN-CP
C1516
1
:MPS
R1514
220
:RN-CP
R1517
680
:RN-CP
27
D1503
V19E
C1509
100
C1512
0.15
100V
:PT
L1503
8.2µH
:LHL08
C1510
0.22
100V
:PT
C1511
0.15
100V
:PT
R1512
150
3W
:RS
R1507
22k
:RN-CP
R1516
1.5
:RN
R1509
1.5
:FPRD
R1510
1.5
:RN
1 V.DEF
2 NC
3 V.RET
CN1513
3P
WHT
:S-MICRO
TO ZR BOARD
CN1413
L1516
100µH
:FLR50
C1513
47p
CH:CHIP
Q1501
2SD601A
BUFF
C1508
100p
CH:CHIP
R1508
2.2k
:CHIP
28
1 V.DRIVE
2 GND
3 +5V
4 GND
5 NC
CN1756
5P
BLK
:S-MICRO
TO B (3/3) BOARD
CN601
B-SS443.<AEP>-D..

## D BOARD IC VOLTAGE LIST

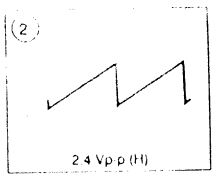
| | | |
|---|---|---|
| IC1501 | 1 | 1.2 |
| | 2 | 14.8 |
| | 3 | -13.3 |
| | 4 | -14.7 |
| | 5 | 0.5 |
| | 6 | 14.8 |
| | 7 | 1.2 |
| IC1601 | 1 | -13.1 |
| | 2 | -13.1 |
| | 3 | -13.1 |
| | 4 | 0 |
| | 5 | 0 |
| | 6 | 0.2 |
| | 7 | 0.2 |
| | 8 | 0 |
| | 9 | 0 |
| | 10 | 0 |
| | 11 | 14.2 |
| | 12 | -14.1 |
| | 13 | -14.1 |
| | 14 | 14.2 |
| | 15 | 14.8 |
| | 16 | -14.7 |
| | 17 | -14.7 |
| | 18 | 14.8 |
| | 19 | -14.7 |
| | 20 | 0.4 |
| | 21 | 0.2 |
| | 22 | 0 |
| IC1602 | 1 | -13.0 |
| | 2 | -13.0 |
| | 3 | -13.0 |
| | 4 | 0.2 |
| | 5 | 0 |
| | 6 | 0.3 |
| | 7 | 0.3 |
| | 8 | 0 |
| | 9 | -0.2 |
| | 10 | -0.1 |
| | 11 | 14.2 |
| | 12 | -14.1 |
| | 13 | -14.1 |
| | 14 | 14.2 |
| | 15 | 14.8 |
| | 16 | -14.8 |
| | 17 | -14.8 |
| | 18 | 14.8 |
| | 19 | -14.7 |
| | 20 | 0.4 |
| | 21 | -0.2 |
| | 22 | 0.2 |
| IC1701 | 21 | 5.4 |
| | 24 | 5.2 |
| | 30 | 0.2 |
| | 31 | 0.2 |
| | 32 | GND |
| | 34 | 2.7 |
| | 35 | 2.4 |
| | 36 | 5.4 |
| | 39 | 0 |
| | 40 | 0 |
| | 41 | 0 |
| | 42 | 0 |
| | 43 | 0 |
| | 44 | 4.7 |
| | 46 | 0 |
| | 47 | 0 |
| | 48 | 0 |
| | 54 | 4.9 |
| | 56 | 4.9 |
| | 58 | 0 |
| | 59 | 0 |
| | 60 | 0 |
| | 61 | GND |
| | 62 | GND |
| | 63 | 5.3 |
| | 64 | 5.3 |
| IC1702 | 1 | 5.4 |
| | 2 | 5.3 |
| | 3 | GND |
| IC1801 | 1 | 0 |
| | 2 | -0.9 |
| | 3 | 0 |
| | 4 | -1.2 |
| | 5 | 0 |
| | 6 | -0.4 |
| | 7 | 0 |
| | 8 | 5.4 |
| | 9 | -5.2 |
| | 10 | 5.2 |
| | 11 | 5.4 |
| | 12 | 0.2 |
| | 13 | 5.2 |
| | 14 | -2.1 |
| | 15 | 0 |
| | 16 | -0.9 |
| | 17 | 0 |
| | 18 | -0.9 |
| | 19 | 0 |
| | 20 | -0.5 |
| | 21 | 5.3 |
| | 22 | 0 |
| | 23 | 1.0 |
| | 24 | 0 |
| | 25 | 0 |
| | 26 | 0 |
| | 27 | 0 |
| | 28 | 0 |
| | 29 | 0 |
| | 30 | 0 |
| | 31 | 5.2 |
| | 32 | 0.2 |
| | 33 | 5.4 |
| | 34 | 5.2 |
| | 35 | 0 |
| | 36 | 0 |
| | 37 | 0 |
| | 38 | 0 |
| | 39 | 0 |
| | 40 | 0.2 |
| | 41 | 0 |
| | 42 | GND |
| IC1802 | 1 | 0.6 |
| | 2 | 1.4 |
| | 3 | 5.3 |
| | 4 | 0 |
| | 5 | -0.9 |
| | 6 | 0 |
| | 7 | -1.1 |
| | 8 | 0 |
| | 9 | -5.2 |
| | 10 | 0.3 |
| | 11 | 0.6 |
| | 12 | -0.9 |
| | 13 | 0.5 |
| | 14 | 1.3 |
| | 15 | GND |
| | 16 | -0.7 |
| | 17 | 1.4 |
| | 18 | -1.6 |
| IC1803 | I | -11.4 |
| | G | GND |
| | O | -5.2 |
| IC1804 | I | 11.9 |
| | G | GND |
| | O | 5.4 |
| IC1805 | 1 | 0 |
| | 2 | -0.8 |
| | 3 | 0 |
| | 4 | -1.2 |
| | 5 | 0 |
| | 6 | -0.4 |
| | 7 | 5.4 |
| | 8 | 5.4 |
| | 9 | -5.2 |
| | 10 | 5.2 |
| | 11 | 5.4 |
| | 12 | 0 |
| | 13 | 5.2 |
| | 14 | -2.1 |
| | 15 | 0 |
| | 16 | -0.8 |
| | 17 | 0 |
| | 18 | -0.8 |
| | 19 | 0 |
| | 20 | -0.5 |
| | 21 | 5.4 |
| | 22 | 0 |
| | 23 | 0 |
| | 24 | 0 |
| | 25 | -0.4 |
| | 26 | 0 |
| | 27 | 0 |
| | 28 | 0 |
| | 29 | 0 |
| | 30 | -0.5 |
| | 31 | 5.2 |
| | 32 | 0 |
| | 33 | 5.4 |
| | 34 | 5.2 |
| | 35 | 0 |
| | 36 | 0 |
| | 37 | 0 |
| | 38 | 0 |
| | 39 | 0 |
| | 40 | -0.2 |
| | 41 | 0.3 |
| | 42 | GND |
| IC1806 | 1 | 0.2 |
| | 2 | 1.4 |
| | 3 | 5.3 |
| | 4 | 0 |
| | 5 | -0.9 |
| | 6 | 0 |
| | 7 | -1.1 |
| | 8 | 0 |
| | 9 | -5.2 |
| | 10 | 0.2 |
| | 11 | 0.6 |
| | 12 | -0.9 |
| | 13 | 0.3 |
| | 14 | 1.3 |
| | 15 | GND |
| | 16 | -1.7 |
| | 17 | 1.4 |
| | 18 | -1.7 |
| IC1807 | I | -14.6 |
| | G | GND |
| | O | -12.7 |
| IC1808 | I | 14.7 |
| | G | GND |
| | O | 12.7 |
| IC1809 | 1 | 0 |
| | 2 | -0.9 |
| | 3 | 0 |
| | 4 | -1.1 |
| | 5 | 0 |
| | 6 | -0.4 |
| | 7 | -5.2 |
| | 8 | 5.4 |
| | 9 | -5.2 |
| | 10 | 5.2 |
| | 11 | 5.3 |
| | 12 | 0.2 |
| | 13 | 5.2 |
| | 14 | -2.2 |
| | 15 | 0 |
| | 16 | -0.9 |
| | 17 | 0 |
| | 18 | -0.8 |
| | 19 | 0 |
| | 20 | -0.5 |
| | 21 | 5.4 |
| | 22 | 0 |
| | 23 | -0.6 |
| | 24 | 0 |
| | 25 | 0.4 |
| | 26 | 0 |
| | 27 | 0 |
| | 28 | 0 |
| | 29 | -0.2 |
| | 30 | 1.1 |
| | 35 | 0 |
| | 36 | 0 |
| | 37 | 0 |
| | 38 | 0 |
| | 39 | 0 |
| | 40 | 0.3 |
| | 41 | 0 |
| | 42 | GND |
| IC1931 | 1 | 0 |
| | 2 | 0 |
| | 3 | 0 |
| | 4 | 12.7 |
| | 5 | 0 |
| | 6 | 0 |
| | 7 | -0.2 |
| | 11 | -12.7 |
| | 12 | GND |
| | 13 | 0 |
| | 14 | 0 |
| IC1932 | 1 | 0.7 |
| | 2 | 0 |
| | 3 | GND |
| | 4 | 12.7 |
| | 5 | 0 |
| | 6 | 0 |
| | 7 | -0.6 |
| | 8 | 0 |
| | 9 | 0 |
| | 10 | 0 |
| | 11 | -12.7 |
| | 12 | 0 |
| | 13 | 0 |
| | 14 | 0 |

All voltages are in V.
Pin numbers which are not described are not used.

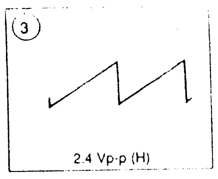
## • D BOARD WAVEFORMS



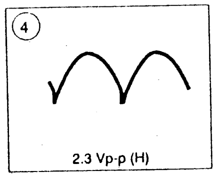
5.2 Vp-p (H)



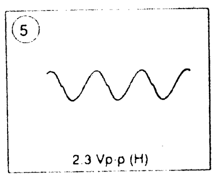
2.4 Vp-p (H)



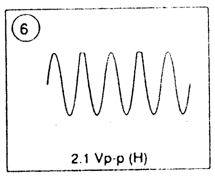
2.4 Vp-p (H)



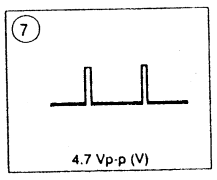
2.3 Vp-p (H)



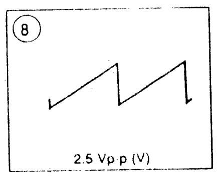
2.3 Vp-p (H)



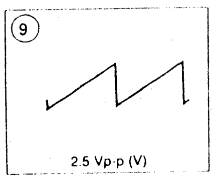
2.1 Vp-p (H)



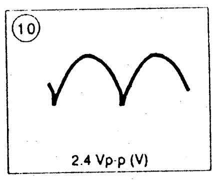
4.7 Vp-p (V)



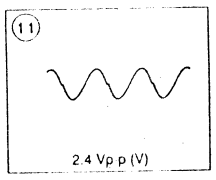
2.5 Vp-p (V)



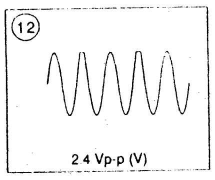
2.5 Vp-p (V)



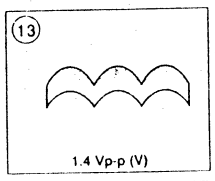
2.4 Vp-p (V)



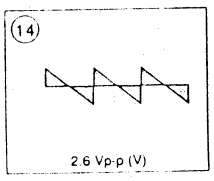
2.4 Vp-p (V)



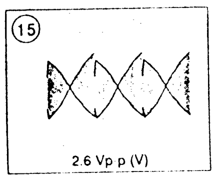
2.4 Vp-p (V)



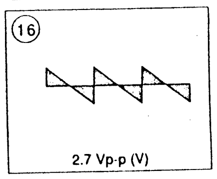
1.4 Vp-p (V)



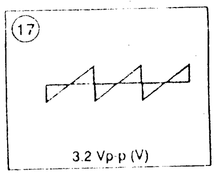
2.6 Vp-p (V)



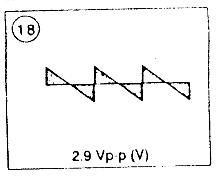
2.6 Vp-p (V)



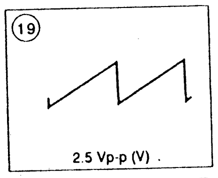
2.7 Vp-p (V)



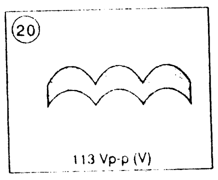
3.2 Vp-p (V)



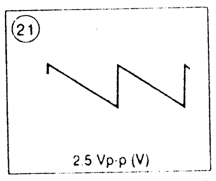
2.9 Vp-p (V)



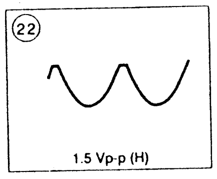
2.5 Vp-p (V)



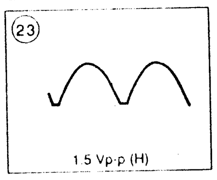
113 Vp-p (V)



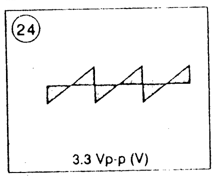
2.5 Vp-p (V)



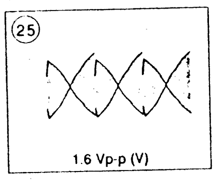
1.5 Vp-p (H)



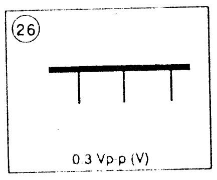
1.5 Vp-p (H)



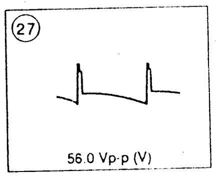
3.3 Vp-p (V)



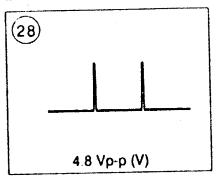
1.6 Vp-p (V)



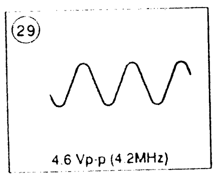
0.3 Vp-p (V)



56.0 Vp-p (V)

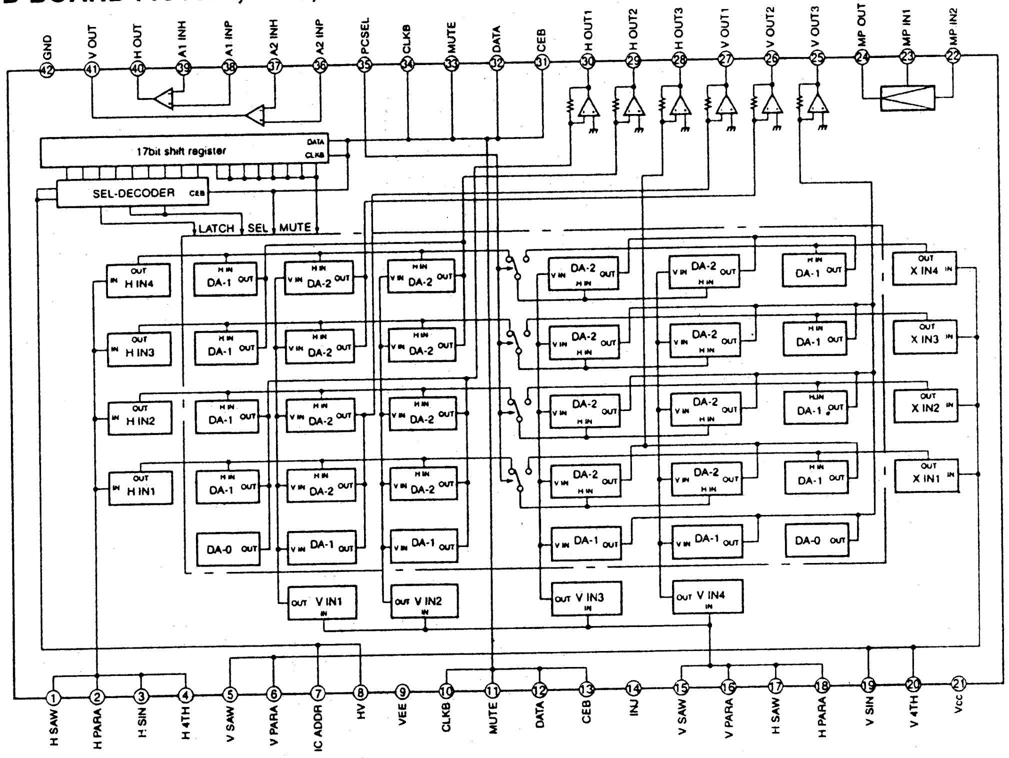


4.8 Vp-p (V)

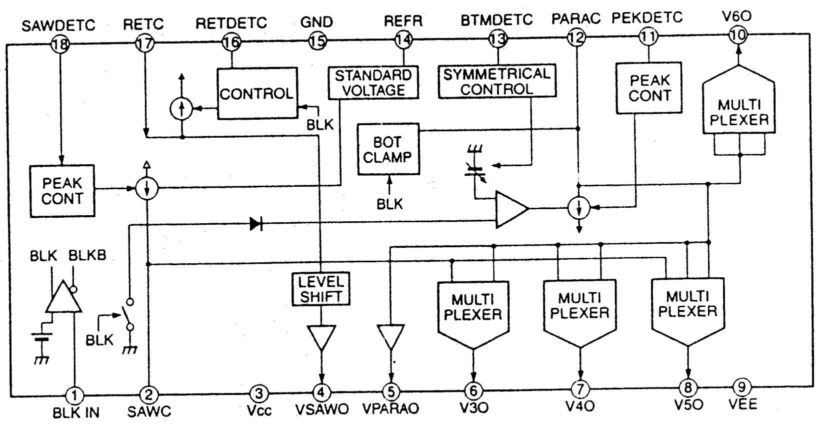


4.6 Vp-p (4.2MHz)

## D BOARD : IC1801, 1805, 1809 PM0002B


42 GND
41 V OUT
40 H OUT
39 A1 INH
38 A1 INP
37 A2 INH
36 A2 INP
35 PCSEL
34 CLKB
33 MUTE
32 DATA
31 CEB
30 H OUT1
29 H OUT2
28 H OUT3
27 V OUT1
26 V OUT2
25 V OUT3
24 MP OUT
23 MP IN1
22 MP IN2
17bit shift register
DATA
CLKB
SEL-DECODER
CEB
LATCH
SEL
MUTE
H IN4
H IN3
H IN2
H IN1
DA-0
DA-1
DA-2
X IN4
X IN3
X IN2
X IN1
V IN1
V IN2
V IN3
V IN4
H IN
V IN
IN
OUT
1 H SAW
2 H PARA
3 H SIN
4 H 4TH
5 V SAW
6 V PARA
7 IC ADDR
8 HV
9 VEE
10 CLKB
11 MUTE
12 DATA
13 CEB
14 INJ
15 V SAW
16 V PARA
17 H SAW
18 H PARA
19 V SIN
20 V 4TH
21 Vcc

## D BOARD : IC1802, 1806 PA0053B


SAWDETC 18
RETC 17
RETDETC 16
GND 15
REFR 14
BTMDETC 13
PARAC 12
PEKDETC 11
V6O 10
CONTROL
BLK
STANDARD VOLTAGE
SYMMETRICAL CONTROL
PEAK CONT
MULTI PLEXER
BOT CLAMP
BLK
PEAK CONT
BLK BLKB
BLK
LEVEL SHIFT
MULTI PLEXER
MULTI PLEXER
MULTI PLEXER
1 BLK IN
2 SAWC
3 Vcc
4 VSAWO
5 VPARAO
6 V3O
7 V4O
8 V5O
9 VEE

## U BOARD IC VOLTAGE LIST

| | | | | | |
|---|---|---|---|---|---|
| IC2001 | 1 | GND | | 19 | * |
| | 2 | 0 | | 20 | 4.8 |
| | 3 | 0 | | 21 | 0 |
| | 5 | 9.4 | | 22 | 4.8 |
| | 6 | 2.0 | | 23 | 4.7 |
| | 7 | 9.4 | | 26 | 4.9 |
| | 8 | 2.5 | | 28 | 4.9 |
| IC2002 | 1 | 4.8 | | 29 | 4.7 |
| | 2 | 4.8 | | 31 | 4.9 |
| | 3 | 4.8 | | 32 | 4.8 |
| | 4 | 4.8 | | 33 | 4.8 |
| | 5 | 4.8 | | 34 | 0.2 |
| | 6 | 0 | | 35 | 4.8 |
| | 7 | 4.8 | | 36 | GND |
| | 8 | 4.8 | | 37 | 4.8 |
| | 9 | 4.8 | | 38 | 4.9 |
| | 10 | 4.8 | | 39 | 4.9 |
| | 11 | 4.8 | | 40 | 4.7 |
| | 12 | 0 | | 42 | 4.8 |
| | 13 | 4.8 | | 43 | 4.8 |
| | 14 | 4.8 | | 44 | 9.4 |
| | 15 | 4.8 | | 45 | 4.8 |
| | 16 | 4.8 | | 46 | 4.8 |
| | 17 | 4.8 | | 47 | 4.8 |
| | 18 | 0 | | 48 | 4.8 |

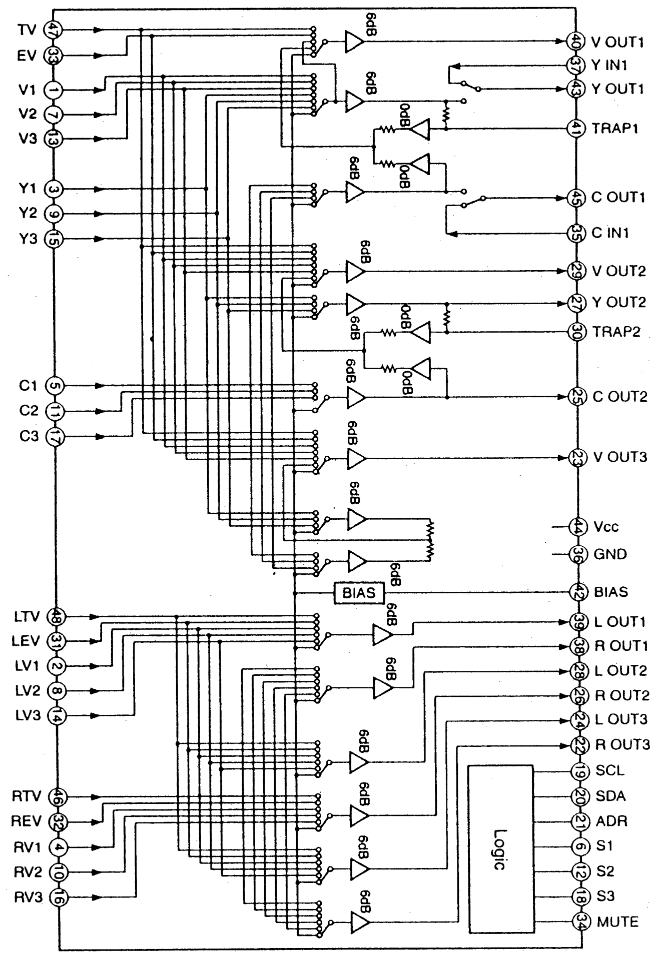
All voltages are in V.
*:Can not mesured.
Pin numbers which are not described are not used.

## U BOARD TRANSISTOR VOLTAGE LIST

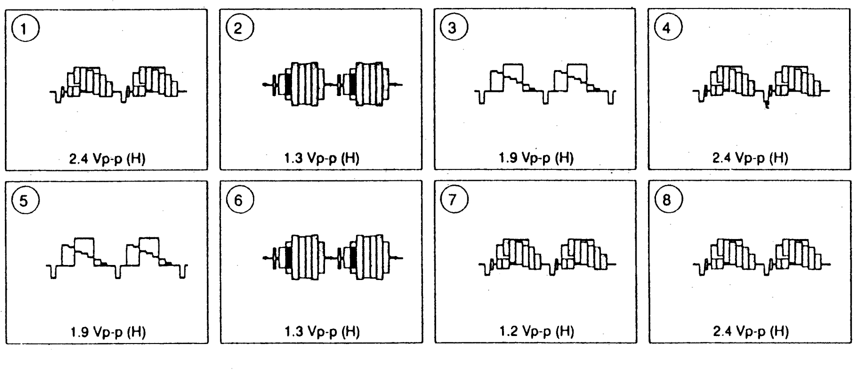
| | B | C | E |
|---|---|---|---|
| Q2001 | 4.7 | 9.4 | 4.0 |
| Q2002 | 9.4 | -1.5 | 9.1 |
| Q2003 | 4.7 | 9.4 | 4.1 |
| Q2004 | 4.7 | GND | 5.4 |
| Q2005 | 4.8 | GND | 5.4 |
| Q2006 | 4.7 | 9.4 | 4.1 |
| Q2007 | 4.7 | 0.9 | 5.3 |
| Q2008 | 0 | GND | 0 |
| Q2009 | 0 | GND | 0 |
| Q2010 | 0 | GND | 0 |
| Q2011 | 4.7 | 8.0 | 4.0 |

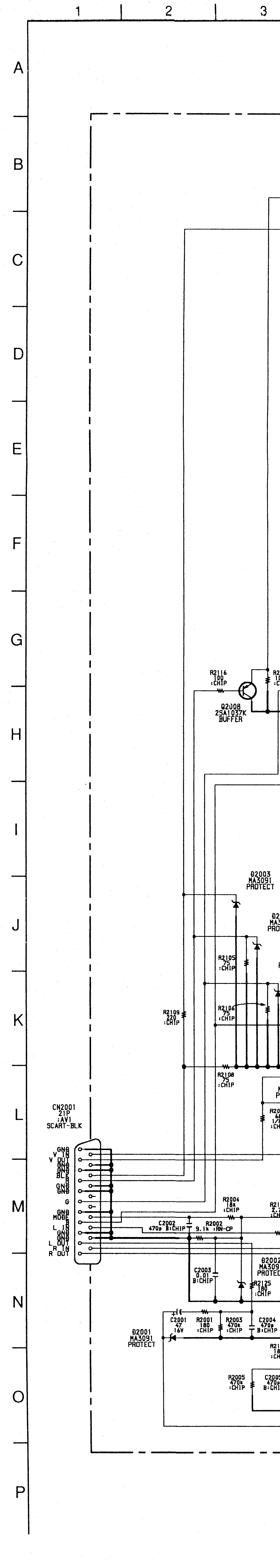
All voltages are in V.

## U BOARD : IC2002 CXA1855S


TV
EV
V1
V2
V3
Y1
Y2
Y3
C1
C2
C3
LTV
LEV
LV1
LV2
LV3
RTV
REV
RV1
RV2
RV3
6dB
0dB
BIAS
Logic
V OUT1
Y IN1
Y OUT1
TRAP1
C OUT1
C IN1
V OUT2
Y OUT2
TRAP2
C OUT2
V OUT3
Vcc
GND
BIAS
L OUT1
R OUT1
L OUT2
R OUT2
L OUT3
R OUT3
SCL
SDA
ADR
S1
S2
S3
MUTE

## • U BOARD WAVEFORMS

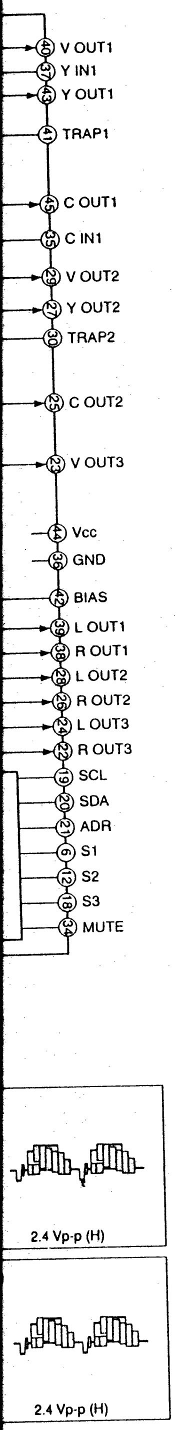



1
2
3
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
R2116
100
:CHIP
Q2008
2SA1037K
BUFFER
D2003
MA3091
PROTECT
R2105
75
:CHIP
R2109
220
:CHIP
R2106
75
:CHIP
R2108
75
:CHIP
CN2001
21P
:AV1
SCART-BLK
GND
V IN
V OUT
GND
GND
BLK
B
GND
GND
G
GND
MODE
R
L IN
GND
GND
L OUT
R IN
R OUT
R2004
18k
:CHIP
C2002
470p B:CHIP
R2002
9.1k :RN-CP
C2003
0.01
B:CHIP
R2125
180
:CHIP
C2001
47
16V
R2001
180
:CHIP
R2003
470k
:CHIP
C2004
470p
B:CHIP
D2001
MA3091
PROTECT
R2005
470k
:CHIP

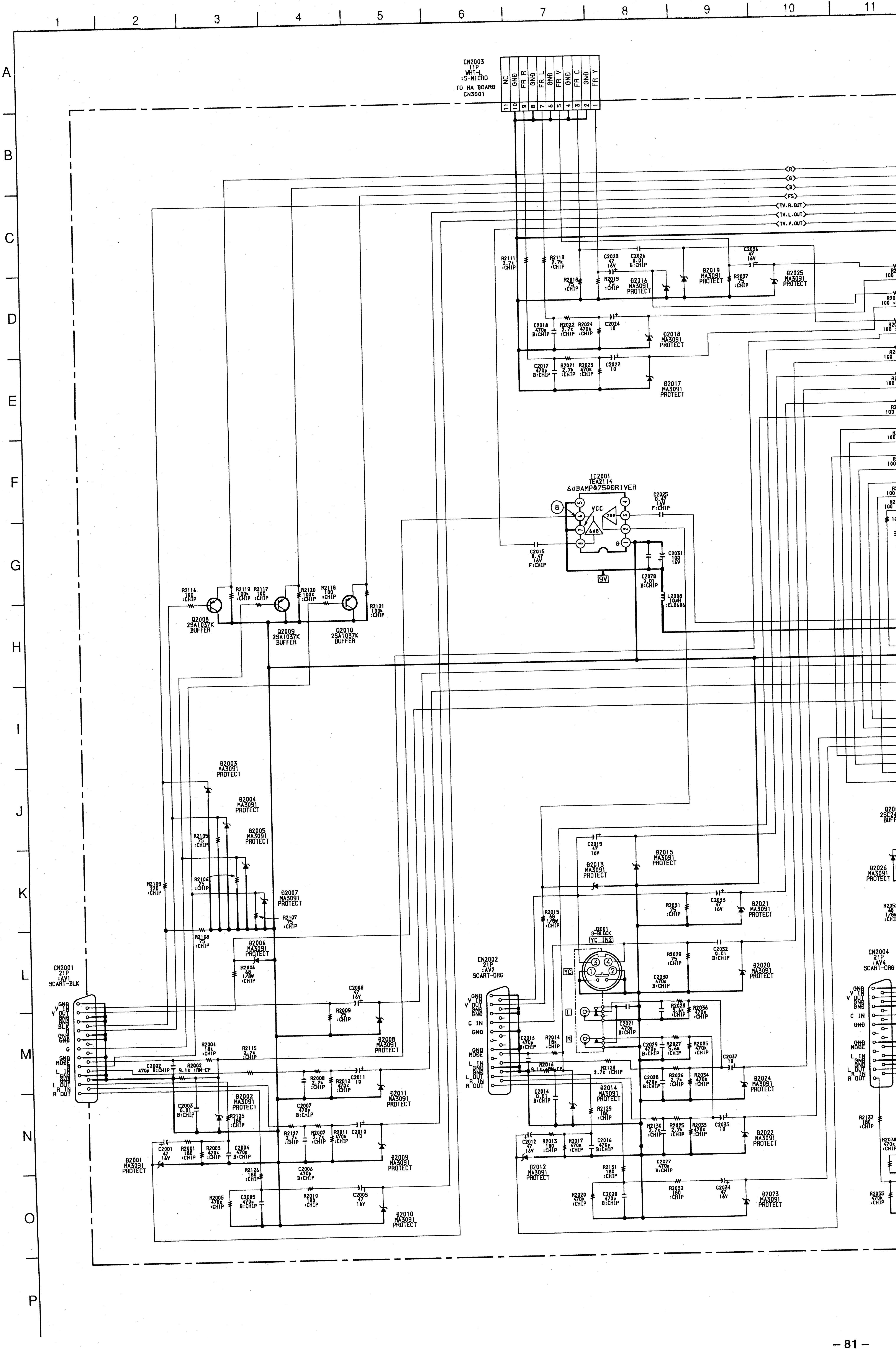
Schematic diagrams
← D board U board →

|  |  |
|---|---|
| 9 | * |
| 0 | 4.8 |
| 1 | 0 |
| 2 | 4.8 |
| 3 | 4.7 |
| 6 | 4.9 |
| 8 | 4.9 |
| 9 | 4.7 |
| 1 | 4.9 |
| 2 | 4.8 |
| 3 | 4.8 |
| 4 | 0.2 |
| 5 | 4.8 |
| 6 | GND |
| 7 | 4.8 |
| 8 | 4.9 |
| 9 | 4.9 |
| 0 | 4.7 |
| 2 | 4.8 |
| 3 | 4.8 |
| 44 | 9.4 |
| 45 | 4.8 |
| 46 | 4.8 |
| 47 | 4.8 |
| 48 | 4.8 |

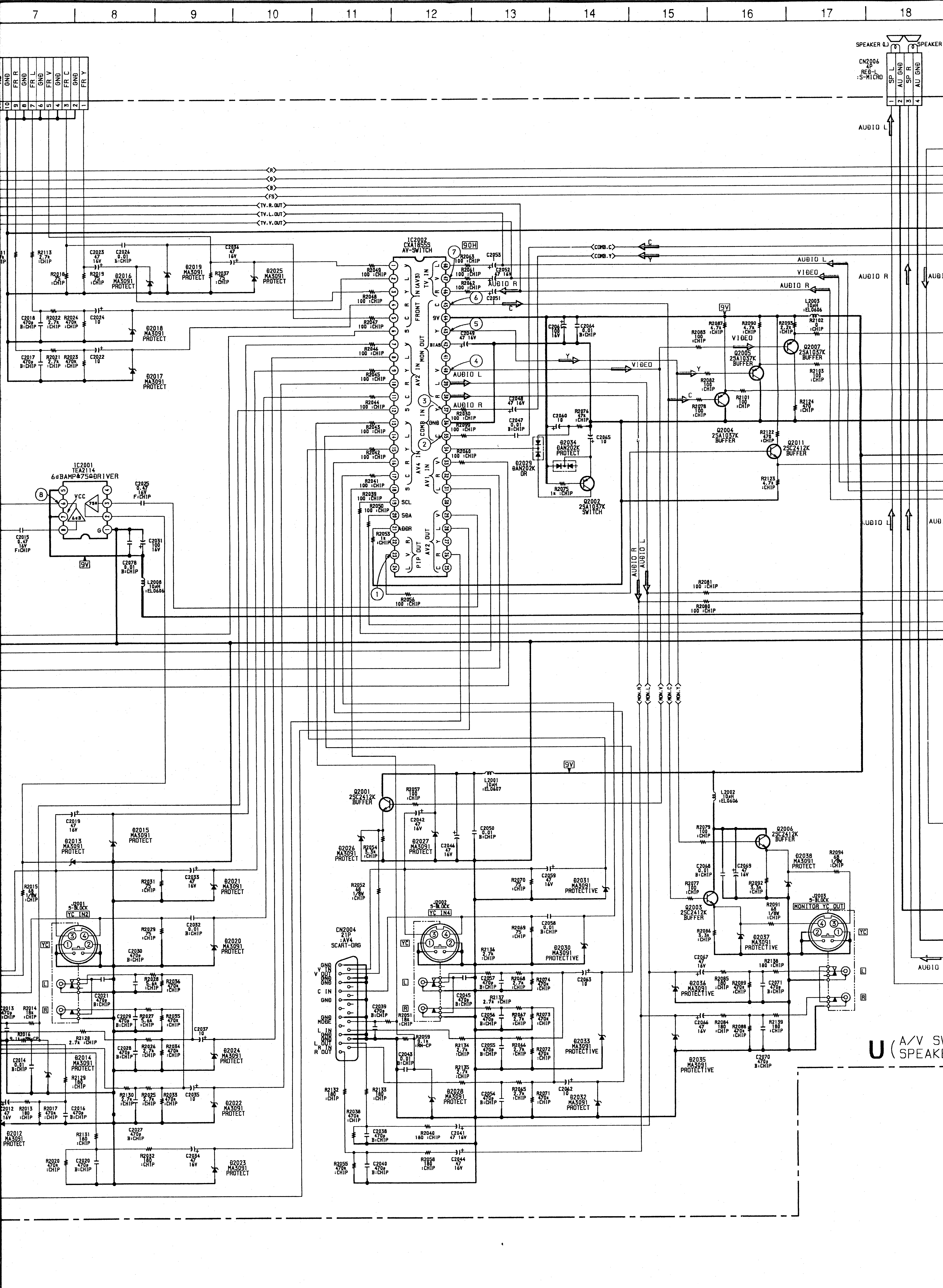
ages are in V.
not mesured.
which are not
are not used.

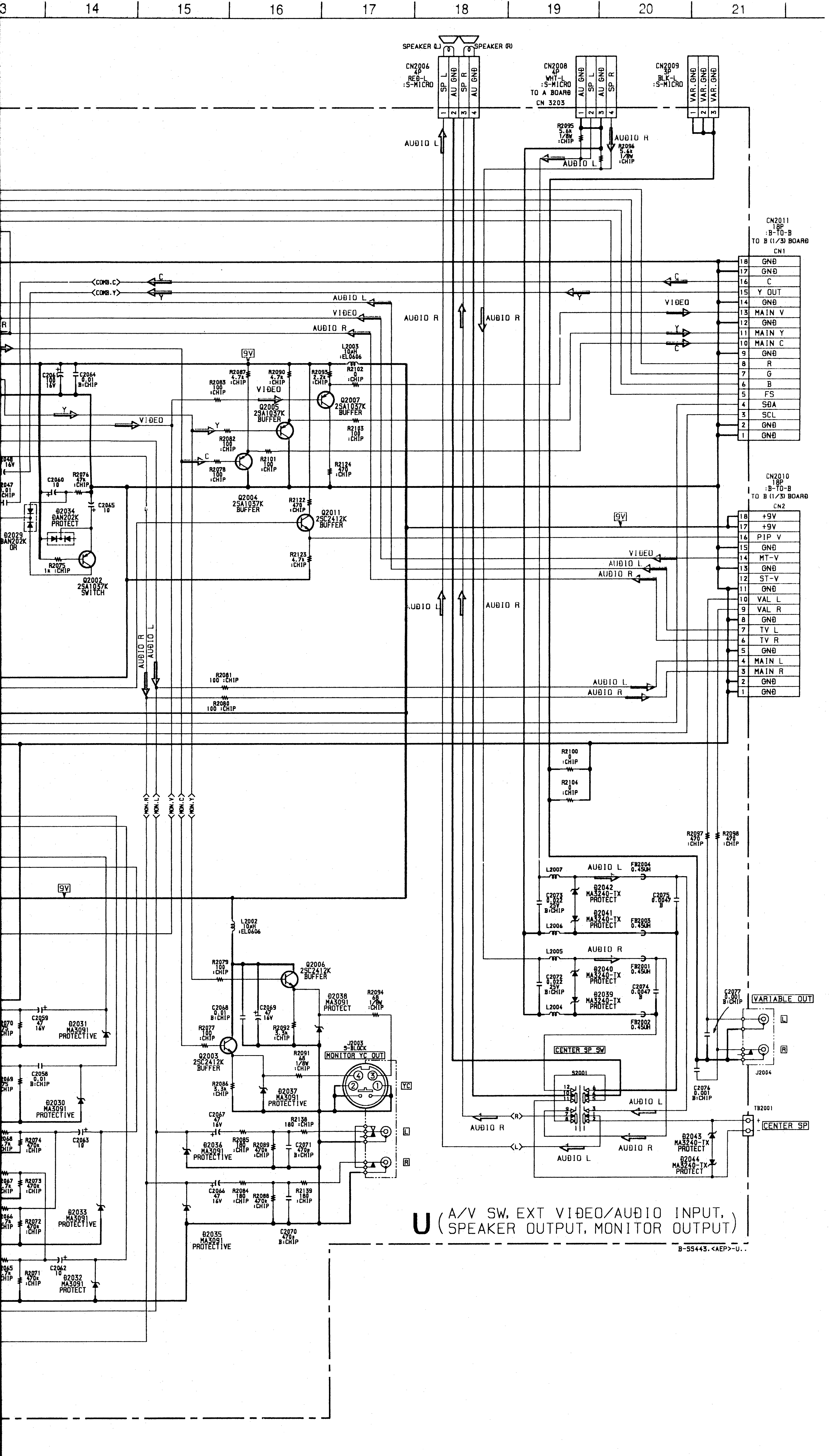


V OUT1
Y IN1
Y OUT1
TRAP1
C OUT1
C IN1
V OUT2
Y OUT2
TRAP2
C OUT2
V OUT3
Vcc
GND
BIAS
L OUT1
R OUT1
L OUT2
R OUT2
L OUT3
R OUT3
SCL
SDA
ADR
S1
S2
S3
MUTE
2.4 Vp-p (H)
2.4 Vp-p (H)



1
2
3
4
5
6
7
8
9
10
11
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
CN2003 11P WHT-L :S-MICRO
TO HA BOARD CN3001
NC
GND
FR R
GND
FR L
GND
FR V
GND
FR C
GND
FR Y
R
B
B
FS
TV.R.OUT
TV.L.OUT
TV.V.OUT
R2111 2.7k :CHIP
R2113 2.7k :CHIP
C2023 47 16V
C2026 0.01 B:CHIP
C2036 47 16V
R2018 75 :CHIP
R2019 75 :CHIP
D2016 MA3091 PROTECT
D2019 MA3091 PROTECT
R2037 75 :CHIP
D2025 MA3091 PROTECT
C2018 470p B:CHIP
R2022 2.7k :CHIP
R2024 470k :CHIP
C2024 10
D2018 MA3091 PROTECT
C2017 470p B:CHIP
R2021 2.7k :CHIP
R2023 470k :CHIP
C2022 10
D2017 MA3091 PROTECT
IC2001 TEA2114 6dBAMP&75ΩDRIVER
VCC
6dB
75Ω
C2025 0.47 16V F:CHIP
C2015 0.47 16V F:CHIP
C2031 100 16V
C2078 0.01 B:CHIP
L2008 10μH :EL0606
9V
R2116 100 :CHIP
R2119 100k :CHIP
R2117 100 :CHIP
R2120 100k :CHIP
R2118 100 :CHIP
R2121 100k :CHIP
Q2008 2SA1037K BUFFER
Q2009 2SA1037K BUFFER
Q2010 2SA1037K BUFFER
D2003 MA3091 PROTECT
D2004 MA3091 PROTECT
D2005 MA3091 PROTECT
R2105 75 :CHIP
R2106 75 :CHIP
R2109 220 :CHIP
D2007 MA3091 PROTECT
R2107 75 :CHIP
R2108 75 :CHIP
D2006 MA3091 PROTECT
R2006 68 1/8W :CHIP
CN2001 21P :AV1 SCART-BLK
GND
V IN
V OUT
GND
GND
B
BLK
GND
G
GND
MODE
R
L IN
GND
GND
L OUT
R IN
R OUT
C2008 47 16V
R2009 75 :CHIP
D2008 MA3091 PROTECT
R2004 18k :CHIP
R2115 2.7k :CHIP
C2002 470p B:CHIP
R2002 9.1k :RN-CP
R2008 2.7k :CHIP
R2012 470k :CHIP
C2011 10
D2011 MA3091 PROTECT
C2003 0.01 B:CHIP
D2002 MA3091 PROTECT
R2125 180 :CHIP
C2007 470p B:CHIP
R2127 2.7k :CHIP
R2007 2.7k :CHIP
R2011 470k :CHIP
C2010 10
C2001 47 16V
R2001 180 :CHIP
R2003 470k :CHIP
C2004 470p B:CHIP
D2001 MA3091 PROTECT
D2009 MA3091 PROTECT
R2124 180 :CHIP
C2006 470p B:CHIP
R2005 470k :CHIP
C2005 470p B:CHIP
R2010 180 :CHIP
C2009 47 16V
D2010 MA3091 PROTECT
C2019 47 16V
D2013 MA3091 PROTECT
D2015 MA3091 PROTECT
R2015 68 1/8W :CHIP
R2031 75 :CHIP
C2033 47 16V
D2021 MA3091 PROTECT
J2001 S-BLOCK YC IN2
YC
L
R
R2029 75 :CHIP
C2032 0.01 B:CHIP
C2030 470p B:CHIP
D2020 MA3091 PROTECT
CN2002 21P :AV2 SCART-ORG
GND
V IN
V OUT
GND
GND
C IN
GND
GND
MODE
L IN
GND
GND
L OUT
R IN
R OUT
R2028 5.6k :CHIP
R2036 470k :CHIP
C2021 470p B:CHIP
C2013 470p B:CHIP
R2014 18k :CHIP
R2016 9.1k :RN-CP
C2029 470p B:CHIP
R2027 5.6k :CHIP
R2035 470k :CHIP
R2128 2.7k :CHIP
C2028 470p B:CHIP
R2026 2.7k :CHIP
R2034 470k :CHIP
C2037 10
D2024 MA3091 PROTECT
C2014 0.01 B:CHIP
D2014 MA3091 PROTECT
R2129 180 :CHIP
R2130 2.7k :CHIP
R2025 2.7k :CHIP
R2033 470k :CHIP
C2035 10
D2022 MA3091 PROTECT
C2012 47 16V
R2013 180 :CHIP
R2017 470k :CHIP
C2016 470p B:CHIP
D2012 MA3091 PROTECT
R2131 180 :CHIP
C2027 470p B:CHIP
R2020 470k :CHIP
C2020 470p B:CHIP
R2032 180 :CHIP
C2034 47 16V
D2023 MA3091 PROTECT
D2026 MA3091 PROTECT
R2052 68 1/8W :CHIP
CN2004 21P :AV4 SCART-ORG
GND
V IN
V OUT
GND
GND
C IN
GND
GND
MODE
L IN
GND
GND
L OUT
R IN
R OUT
R2132 180 :CHIP
R2038 470k :CHIP
R2055 470k :CHIP


7
8
9
10
11
12
13
14
15
16
17
18
GND
FR R
GND
FR L
GND
FR V
GND
FR C
GND
FR Y
SPEAKER (L)
SPEAKER
CN2006
4P
REG-L
:S-MICRO
SP L
AU GND
SP R
AU GND
AUDIO L
AUDIO R
VIDEO
(R)
(G)
(B)
(FS)
(TV.R.OUT)
(TV.L.OUT)
(TV.V.OUT)
IC2002
CXA1855S
AV-SWITCH
90H
(COMB.C)
(COMB.Y)
C
Y
TV IN
FRONT IN (AV3)
MON OUT
AV2 IN
COMB IN
AV4 IN
AV1 IN
PIP OUT
AV2 OUT
9V
BIAS
GND
SCL
SDA
ADDR
IC2001
TEA2114
6dBAMP&75ΩDRIVER
VCC
6dB
75Ω
D2016
MA3091
PROTECT
D2017
MA3091
PROTECT
D2018
MA3091
PROTECT
D2019
MA3091
PROTECT
D2025
MA3091
PROTECT
D2029
DAN202K
OR
D2034
DAN202K
PROTECT
Q2002
2SA1037K
SWITCH
Q2004
2SA1037K
BUFFER
Q2005
2SA1037K
BUFFER
Q2007
2SA1037K
BUFFER
Q2011
2SC2412K
BUFFER
L2003
10μH
:EL0606
L2008
10μH
:EL0606
(MON.R)
(MON.L)
(MON.V)
(MON.C)
(MON.Y)
Q2001
2SC2412K
BUFFER
L2001
10μH
:EL0607
L2002
10μH
:EL0606
Q2006
2SC2412K
BUFFER
Q2003
2SC2412K
BUFFER
J2001
S-BLOCK
YC IN2
J2002
S-BLOCK
YC IN4
J2003
S-BLOCK
MONITOR YC OUT
YC
L
R
CN2004
21P
:AV4
SCART-DRG
V IN
V OUT
GND
C IN
GND
MODE
L IN
L OUT
R IN
R OUT
D2012
MA3091
PROTECT
D2013
MA3091
PROTECT
D2014
MA3091
PROTECT
D2015
MA3091
PROTECT
D2020
MA3091
PROTECT
D2021
MA3091
PROTECT
D2022
MA3091
PROTECT
D2023
MA3091
PROTECT
D2024
MA3091
PROTECT
D2026
MA3091
PROTECT
D2027
MA3091
PROTECT
D2028
MA3091
PROTECT
D2030
MA3091
PROTECTIVE
D2031
MA3091
PROTECTIVE
D2032
MA3091
PROTECT
D2033
MA3091
PROTECTIVE
D2035
MA3091
PROTECTIVE
D2036
MA3091
PROTECTIVE
D2037
MA3091
PROTECTIVE
D2038
MA3091
PROTECT
U (A/V S
SPEAKE

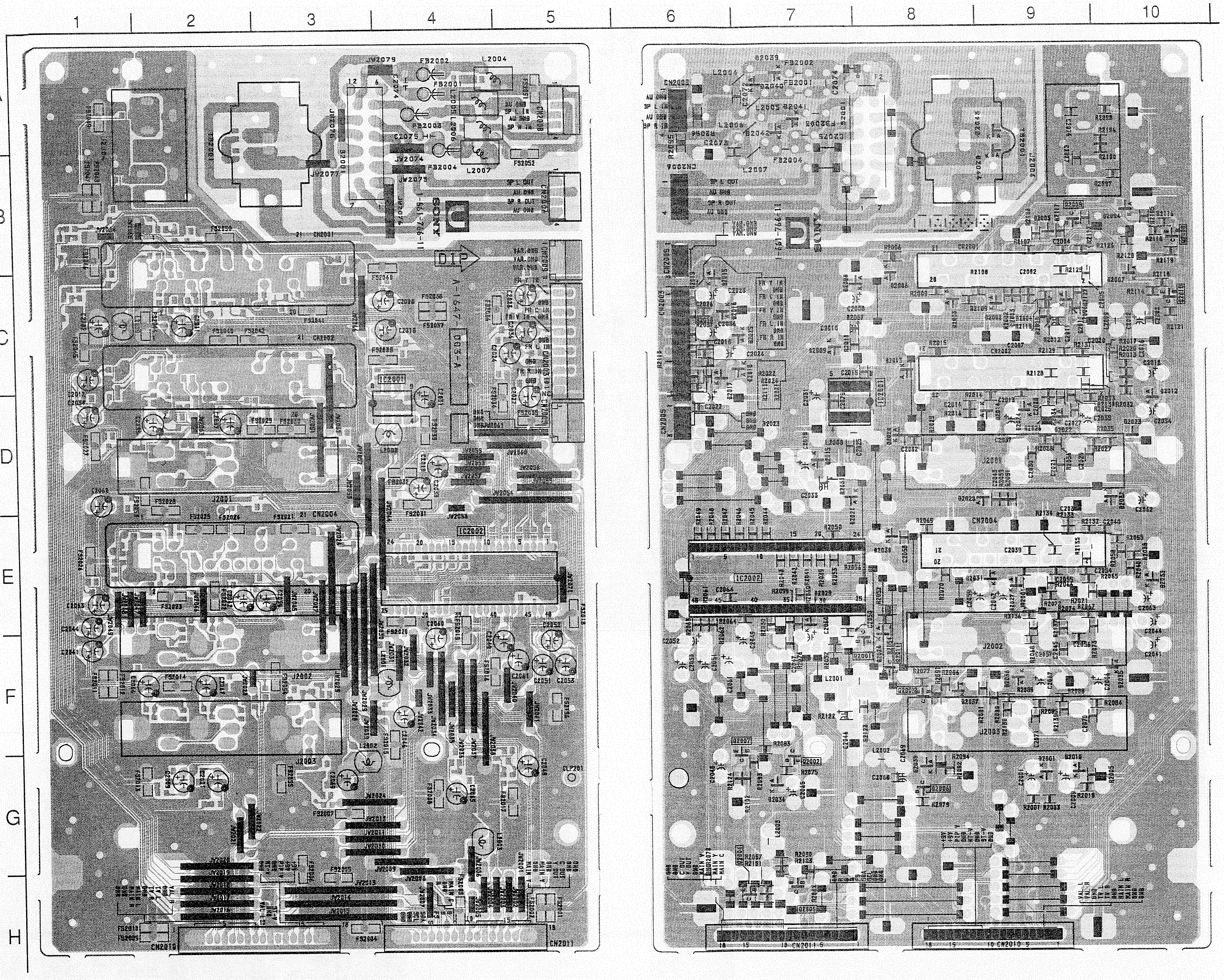

14
15
16
17
18
19
20
21
SPEAKER (L)
SPEAKER (R)
CN2006 4P RED-L :S-MICRO
SP L
AU GND
SP R
AU GND
CN2008 4P WHT-L :S-MICRO TO A BOARD CN 3203
CN2009 3P BLK-L :S-MICRO
VAR GND
AUDIO L
AUDIO R
R2095 5.6k 1/8W :CHIP
R2096 5.6k 1/8W :CHIP
CN2011 18P :B-TO-B TO B (1/3) BOARD CN1
GND
C
Y OUT
MAIN V
MAIN Y
MAIN C
R
G
B
FS
SDA
SCL
CN2010 18P :B-TO-B TO B (1/3) BOARD CN2
+9V
PIP V
MT-V
ST-V
VAL L
VAL R
TV L
TV R
MAIN L
MAIN R
<COMB.C>
<COMB.Y>
VIDEO
Y
9V
L2003 10uH :EL0606
Q2005 2SA1037K BUFFER
Q2007 2SA1037K BUFFER
Q2004 2SA1037K BUFFER
Q2011 2SC2412K BUFFER
Q2002 2SA1037K SWITCH
D2034 DAN202K PROTECT
D2029 DAN202K OR
R2081 100 :CHIP
R2080 100 :CHIP
R2100 0 :CHIP
R2104 0 :CHIP
R2097 470 :CHIP
R2098 470 :CHIP
<MON.R>
<MON.L>
<MON.V>
<MON.C>
<MON.Y>
L2007
L2006
L2005
L2004
FB2004 0.45uH
FB2003 0.45uH
FB2001 0.45uH
FB2002 0.45uH
D2042 MA3240-TX PROTECT
D2041 MA3240-TX PROTECT
D2040 MA3240-TX PROTECT
D2039 MA3240-TX PROTECT
C2073 0.022 25V B:CHIP
C2072 0.022 25V B:CHIP
C2075 0.0047 B
C2074 0.0047 B
L2002 10uH :EL0606
Q2006 2SC2412K BUFFER
Q2003 2SC2412K BUFFER
D2038 MA3091 PROTECT
J2003 S-BLOCK
MONITOR YC OUT
YC
D2037 MA3091 PROTECTIVE
D2036 MA3091 PROTECTIVE
D2035 MA3091 PROTECTIVE
D2031 MA3091 PROTECTIVE
D2030 MA3091 PROTECTIVE
D2033 MA3091 PROTECTIVE
D2032 MA3091 PROTECT
CENTER SP SW
S2001
VARIABLE OUT
J2004
C2077 0.001 B:CHIP
C2076 0.001 B:CHIP
TB2001
CENTER SP
D2043 MA3240-TX PROTECT
D2044 MA3240-TX PROTECT
(R)
(L)
L
R
B-SS443.<AEP>-U..

U (A/V SW, EXT VIDEO/AUDIO INPUT, SPEAKER OUTPUT, MONITOR OUTPUT)

**U** [A/V SW, EXT VIDEO/AUDIO INPUT, SPEAKER OUTPUT, MONITOR OUTPUT]

## – U BOARD –

NOTE:
- ▨ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.



< Component Side >

< Conductor Side >

### U BOARD

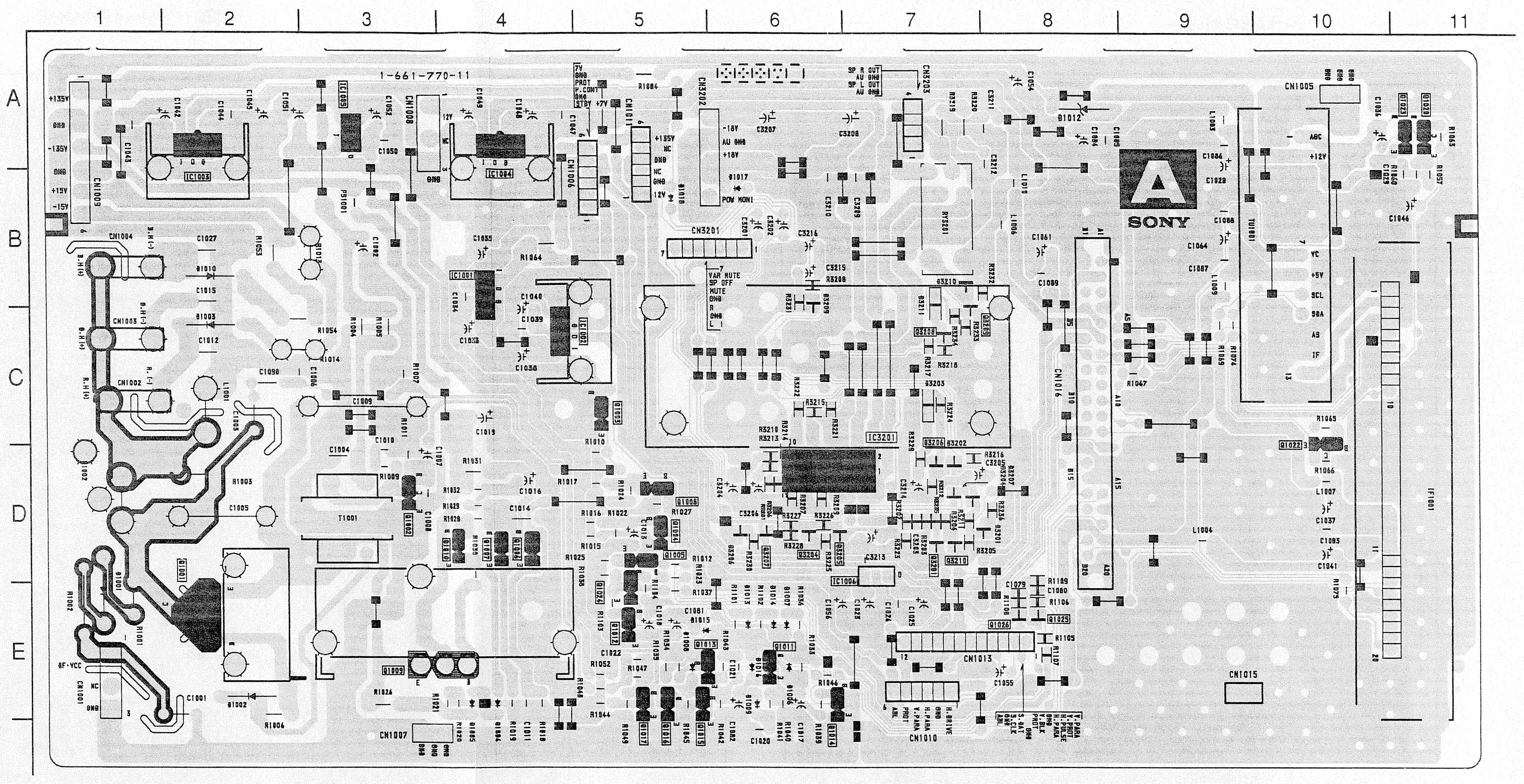
| DIODE | |
|---|---|
| D2001 | G-9 |
| D2002 | C-9 |
| D2003 | C-8 |
| D2004 | B-10 |
| D2005 | B-9 |
| D2006 | C-8 |
| D2007 | C-10 |
| D2008 | C-8 |
| D2009 | C-7 |
| D2010 | G-9 |
| D2011 | C-9 |
| D2012 | D-10 |
| D2013 | C-8 |
| D2014 | D-9 |
| D2015 | D-7 |
| D2016 | C-6 |
| D2017 | C-6 |
| D2018 | C-7 |
| D2019 | C-6 |
| D2020 | D-8 |
| D2021 | D-7 |
| D2022 | D-9 |
| D2023 | D-10 |
| D2024 | D-9 |
| D2025 | C-7 |
| D2026 | F-8 |
| D2027 | E-9 |
| D2028 | D-9 |
| D2029 | E-7 |
| D2030 | E-8 |
| D2031 | E-9 |
| D2032 | D-10 |
| D2033 | E-10 |
| D2034 | G-7 |
| D2035 | F-10 |
| D2036 | F-9 |
| D2037 | F-8 |
| D2038 | G-8 |
| D2039 | A-7 |
| D2040 | A-7 |
| D2041 | A-7 |
| D2042 | A-7 |
| D2043 | A-9 |
| D2044 | B-9 |
| **I C** | |
| IC2001 | D-7 |
| IC2002 | E-7 |
| **TRANSISTOR** | |
| Q2001 | F-8 |
| Q2002 | G-7 |
| Q2003 | F-8 |
| Q2004 | H-7 |
| Q2005 | H-7 |
| Q2006 | G-8 |
| Q2007 | G-7 |
| Q2008 | B-10 |
| Q2009 | B-9 |
| Q2010 | C-10 |
| Q2011 | F-8 |

## A BOARD

| DIODE | |
|---|---|
| D1001 | E-1 |
| D1002 | E-2 |
| D1003 | C-2 |
| D1004 | E-4 |
| D1005 | E-4 |
| D1007 | E-6 |
| D1008 | E-5 |
| D1009 | E-6 |
| D1010 | B-2 |
| D1012 | A-8 |
| D1014 | E-6 |
| D1015 | E-5 |
| D1016 | E-6 |
| D1017 | B-6 |
| D1018 | B-5 |
| D3201 | D-7 |
| D3202 | D-7 |
| D3203 | C-7 |
| D3204 | D-7 |
| D3206 | D-6 |
| D3207 | D-7 |
| D3209 | B-6 |
| D3210 | B-7 |
| D3211 | B-7 |
| **I C** | |
| IC1001 | B-4 |
| IC1002 | C-4 |
| IC1003 | A-2 |
| IC1004 | A-4 |
| IC1005 | A-3 |
| IC1006 | D-7 |
| IC3201 | D-6 |
| **TRANSISTOR** | |
| Q1001 | E-2 |
| Q1002 | D-3 |
| Q1003 | C-5 |
| Q1004 | D-5 |
| Q1005 | D-5 |
| Q1006 | D-4 |
| Q1007 | D-4 |
| Q1008 | D-5 |
| Q1009 | E-3 |
| Q1010 | D-4 |
| Q1011 | E-6 |
| Q1012 | E-5 |
| Q1013 | E-5 |
| Q1014 | E-6 |
| Q1015 | E-5 |
| Q1016 | E-5 |
| Q1017 | E-5 |
| Q1020 | A-11 |
| Q1022 | C-10 |
| Q1023 | A-11 |
| Q1024 | E-5 |
| Q1025 | E-8 |
| Q1026 | E-8 |
| Q3201 | D-7 |
| Q3204 | D-6 |
| Q3205 | D-6 |
| Q3206 | D-7 |
| Q3207 | D-6 |
| Q3208 | C-7 |
| Q3209 | B-7 |
| Q3210 | D-7 |

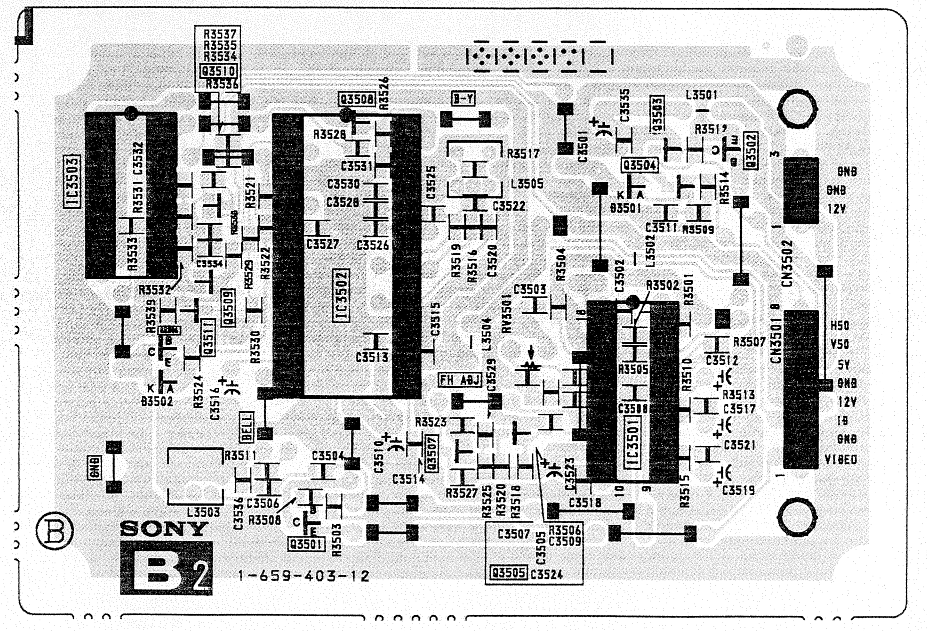
**A** [TUNER, H OUT, AUDIO AMP]

### – A BOARD –

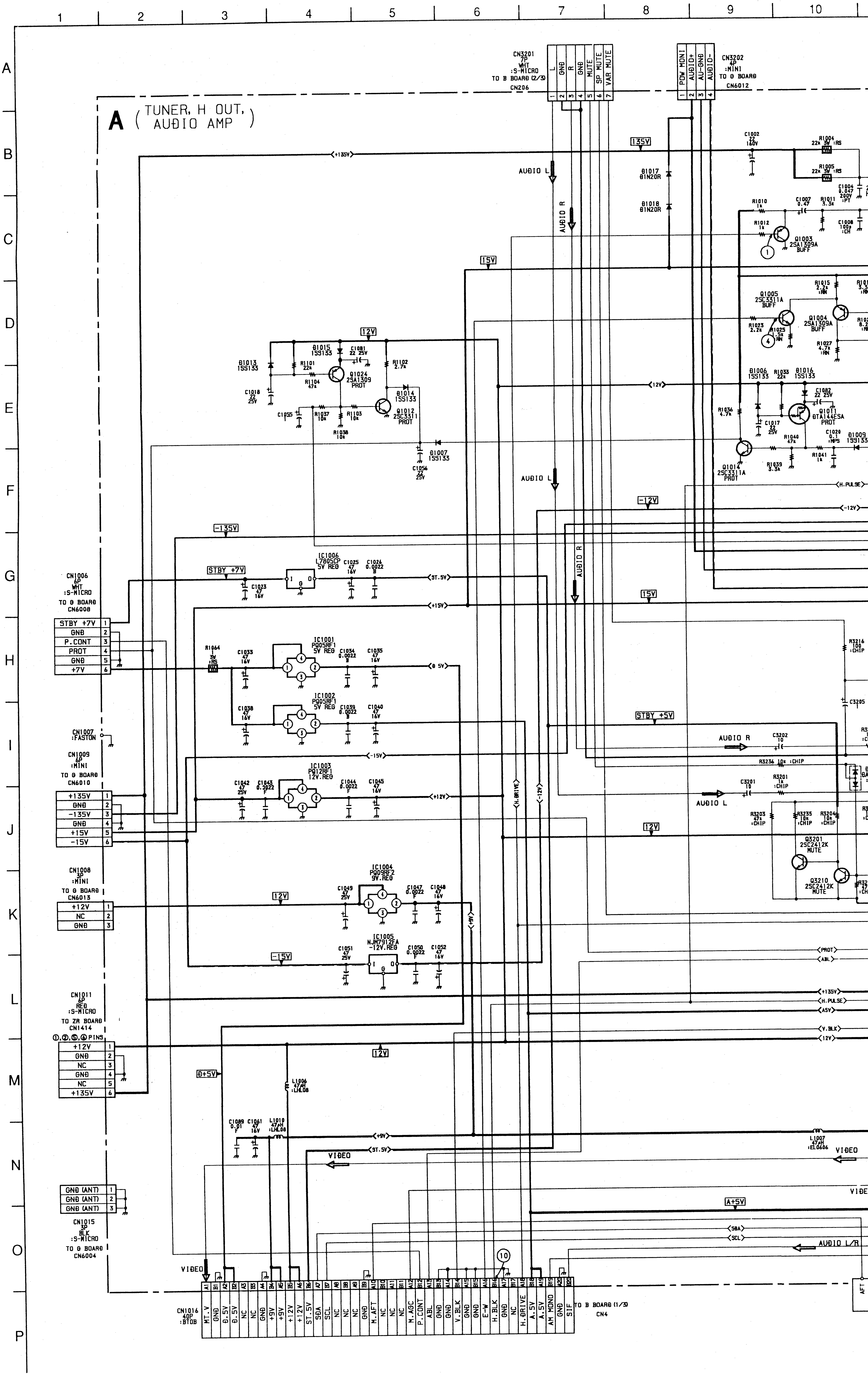


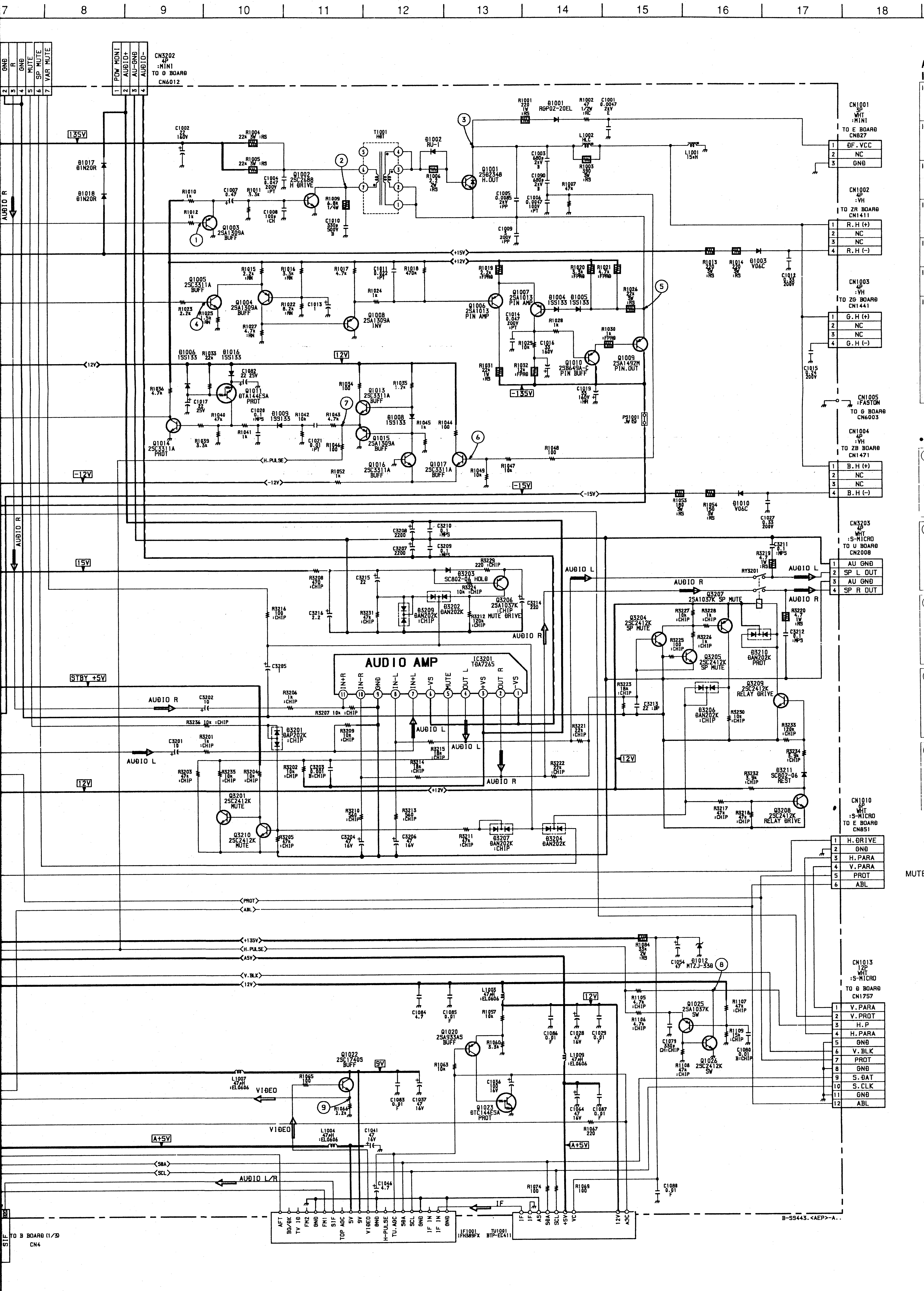
**B2** [SECAM] (French only)

### – B2 BOARD –



Schematic diagrams
A B2 board ➡


A ( TUNER, H OUT, AUDIO AMP )
CN3201 7P WHT :S-MICRO TO B BOARD (2/3) CN206
L
GND
R
GND
MUTE
SP MUTE
VAR MUTE
CN3202 4P :MINI TO G BOARD CN6012
POW MONI
AUDIO+
AU-GND
AUDIO-
135V
15V
12V
-12V
-135V
STBY +7V
STBY +5V
-15V
D+5V
A+5V
AUDIO L
AUDIO R
VIDEO
AUDIO L/R
C1002 22 160V
R1004 22k 3W :RS
R1005 22k 3W :RS
C1004 0.047 200V :PT
D1017 D1N20R
D1018 D1N20R
R1010 1k
R1012 1k
C1007 0.47
R1011 3.3k
C1008 100p :CH
Q1003 2SA1309A BUFF
Q1005 2SC3311A BUFF
Q1004 2SA1309A BUFF
R1015 2.2k :RN
R1023 2.2k
R1025 1.5k :RN
R1027 4.7k :RN
D1006 1SS133
R1033 22k
D1016 1SS133
C1082 22 25V
Q1011 DTA144ESA PROT
R1036 4.7k
C1017 22 25V
R1040 47k
C1020 0.1 :MPS
D1009 1SS133
R1041 1k
R1039 3.3k
Q1014 2SC3311A PROT
D1013 1SS133
D1015 1SS133
C1081 22 25V
R1101 22k
R1104 47k
Q1024 2SA1309 PROT
R1102 2.7k
D1014 1SS133
Q1012 2SC3311 PROT
C1018 22 25V
C1055
R1037 10k
R1103 10k
R1038 10k
D1007 1SS133
C1056 22 25V
IC1006 L7805CP 5V REG
C1023 47 16V
C1025 47 16V
C1026 0.0022 B
IC1001 PQ05RF1 5V REG
R1064 1 3W :RS
C1033 47 16V
C1034 0.0022 B
C1035 47 16V
IC1002 PQ05RF1 5V REG
C1038 47 16V
C1039 0.0022 B
C1040 47 16V
IC1003 PQ12RF1 12V.REG
C1042 47 25V
C1043 0.0022 F
C1044 0.0022 F
C1045 47 16V
IC1004 PQ09RF2 9V.REG
C1049 47 25V
C1047 0.0022 F
C1048 47 16V
IC1005 NJM7912FA -12V.REG
C1051 47 25V
C1050 0.0022 F
C1052 47 16V
L1006 47μH :LHL08
C1089 0.01 F
C1061 47 16V
L1010 47μH :LHL08
L1007 47μH :EL0606
(+135V)
(ST.5V)
(+15V)
(B 5V)
(-15V)
(+12V)
(+9V)
(H.DRIVE)
(-12V)
(12V)
(H.PULSE)
(PROT)
(ABL)
(A5V)
(V.BLK)
(SDA)
(SCL)
CN1006 6P WHT :S-MICRO TO G BOARD CN6008
STBY +7V
GND
P.CONT
PROT
GND
+7V
CN1007 :FASTON
CN1009 6P :MINI TO G BOARD CN6010
+135V
GND
-135V
GND
+15V
-15V
CN1008 3P :MINI TO G BOARD CN6013
+12V
NC
GND
CN1011 6P RED :S-MICRO TO ZR BOARD CN1414
①,②,⑤,⑥PINS
+12V
GND
NC
GND
NC
+135V
GND (ANT)
GND (ANT)
GND (ANT)
CN1015 3P BLK :S-MICRO TO G BOARD CN6004
C3202 10
R3234 10k :CHIP
C3201 10
R3201 1k :CHIP
R3203 47k :CHIP
R3235 10k :CHIP
R3204 10k :CHIP
Q3201 2SC2412K MUTE
Q3210 2SC2412K MUTE
R3216 100 :CHIP
C3205
CN1016 40P :BTOB TO B BOARD (1/3) CN4
MT.V
GND
D.5V
D.5V
NC
NC
GND
+9V
+9V
+12V
+12V
ST.5V
SDA
SCL
NC
NC
GND
M.AFT
NC
NC
M.AGC
P.CONT
ABL
GND
GND
V.BLK
GND
E-W
H.BLK
GND
NC
H.DRIVE
A.5V
A.5V
AM MONO
GND
SIF
AFT
⑩
①
④



7
8
9
10
11
12
13
14
15
16
17
18
CN3202 4P :MINI TO G BOARD CN6012
POW MONI
AUDIO+
AU-GND
AUDIO-
GND
R
GND
MUTE
SP MUTE
VAR MUTE
135V
T1001 HDT
Q1002 2SC2688 H DRIVE
Q1001 2SD2348 H.OUT
Q1003 2SA1309A BUFF
D1001 RGP02-20EL
L1001 15mH
CN1001 3P WHT :MINI TO E BOARD CN827
ÐF.VCC
NC
GND
CN1002 4P :VH TO ZR BOARD CN1411
R.H (+)
NC
NC
R.H (-)
CN1003 4P :VH TO ZG BOARD CN1441
G.H (+)
G.H (-)
CN1005 :FASTON TO G BOARD CN6003
CN1004 4P :VH TO ZB BOARD CN1471
B.H (+)
B.H (-)
Q1007 2SA1013 PIN AMP
Q1006 2SA1013 PIN AMP
Q1008 2SA1309A INV
Q1010 2SB649A-C PIN BUFF
Q1009 2SA1492M PIN.OUT
Q1011 DTA144ESA PROT
Q1014 2SC3311A PROT
Q1013 2SC3311A BUFF
Q1015 2SA1309A BUFF
Q1016 2SC3311A BUFF
Q1017 2SC3311A BUFF
+15V
+12V
12V
-12V
-15V
-135V
H.PULSE
PS1001
15V
STBY +5V
AUDIO AMP
IC3201 TDA7265
IN+R
IN-R
GND
IN-L
IN+L
-VS
MUTE
OUT L
+VS
OUT R
-VS
AUDIO L
AUDIO R
Q3201 2SC2412K MUTE
Q3210 2SC2412K MUTE
Q3203 SC802-06 HOLD
Q3206 2SA1037K MUTE DRIVE
Q3207 2SA1037K SP MUTE
Q3204 2SC2412K SP MUTE
Q3205 2SC2412K SP MUTE
Q3209 2SC2412K RELAY DRIVE
Q3208 2SC2412K RELAY DRIVE
Q3211 SC802-06 REST
RY3201
CN3203 4P WHT :S-MICRO TO U BOARD CN2008
AU GND
SP L OUT
AU GND
SP R OUT
CN1010 6P WHT :S-MICRO TO E BOARD CN851
H.DRIVE
GND
H.PARA
V.PARA
PROT
ABL
PROT
ABL
+135V
A5V
V.BLK
CN1013 12P WHT :S-MICRO TO B BOARD CN1757
V.PARA
V.PROT
H.P
H.PARA
GND
V.BLK
PROT
GND
S.DAT
S.CLK
GND
ABL
Q1025 2SA1037K SW
Q1026 2SC2412K SW
Q1020 2SA933AS BUFF
Q1022 2SC1740S BUFF
Q1023 DTC144ESA PROT
9V
VIDEO
A+5V
SDA
SCL
AUDIO L/R
IF
IF1001 IFH389FX
TU1001 BTP-EC411
AFT
BG/DK
TV I0
FM2
GND
FM1
SIF
TOP AGC
5V
9V
VIDEO
GND
H-PULSE
TU.AGC
SDA
SCL
GND
IF IN
IF IN
GND
+5V
VC
12V
A3C
SIF
TO B BOARD (1/3) CN4
B-S9443.<AEP>-A..

A BOA
IC VOI

| |
|---|
| IC1001 |
| IC1002 |
| IC1003 |
| IC1004 |
| IC1005 |
| IC1006 |
| IC3201 |

All vo

•A B

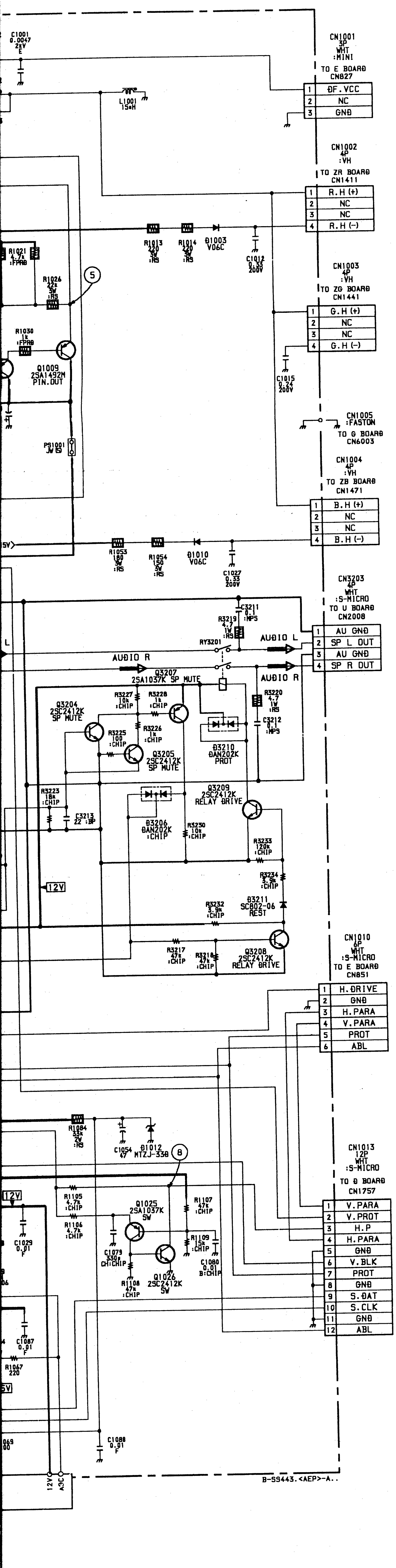
A

MUTE/ST-B

L +I

GN

R +I


CN1001 3P WHT :MINI TO E BOARD CN827
1 DF.VCC
2 NC
3 GND
CN1002 4P :VH TO ZR BOARD CN1411
1 R.H (+)
2 NC
3 NC
4 R.H (-)
CN1003 4P :VH TO ZG BOARD CN1441
1 G.H (+)
2 NC
3 NC
4 G.H (-)
CN1005 :FASTON TO G BOARD CN6003
CN1004 4P :VH TO ZB BOARD CN1471
1 B.H (+)
2 NC
3 NC
4 B.H (-)
CN3203 4P WHT :S-MICRO TO U BOARD CN2008
1 AU GND
2 SP L OUT
3 AU GND
4 SP R OUT
AUDIO L
AUDIO R
Q1009 2SA1492M PIN.OUT
Q3204 2SC2412K SP MUTE
Q3205 2SC2412K SP MUTE
Q3207 2SA1037K SP MUTE
Q3209 2SC2412K RELAY DRIVE
Q3208 2SC2412K RELAY DRIVE
D3210 DAN202K PROT
D3206 DAN202K :CHIP
D3211 SC802-06 REST
RY3201
12V
CN1010 6P WHT :S-MICRO TO E BOARD CN851
1 H.DRIVE
2 GND
3 H.PARA
4 V.PARA
5 PROT
6 ABL
Q1025 2SA1037K SW
Q1026 2SC2412K SW
D1012 MTZJ-33B
CN1013 12P WHT :S-MICRO TO D BOARD CN1757
1 V.PARA
2 V.PROT
3 H.P
4 H.PARA
5 GND
6 V.BLK
7 PROT
8 GND
9 S.DAT
10 S.CLK
11 GND
12 ABL
B-59443.<AEP>-A..

## A BOARD IC VOLTAGE LIST

| | | |
|---|---|---|
| IC1001 | 1 | 6.2 |
| | 2 | 5.3 |
| | 3 | GND |
| | 4 | 6.2 |
| IC1002 | 1 | 6.2 |
| | 2 | 5.3 |
| | 3 | GND |
| | 4 | 6.2 |
| IC1003 | 1 | 13.6 |
| | 2 | 12.8 |
| | 3 | GND |
| | 4 | 13.6 |
| IC1004 | 1 | 13.8 |
| | 2 | 9.5 |
| | 3 | GND |
| | 4 | 13.8 |
| IC1005 | I | -15.0 |
| | G | GND |
| | O | -12.8 |
| IC1006 | I | 8.3 |
| | G | GND |
| | O | 5.3 |
| IC3201 | 1 | -23.2 |
| | 2 | 0 |
| | 3 | 23.3 |
| | 4 | 0 |
| | 5 | 14.1 |
| | 6 | -23.2 |
| | 7 | 0 |
| | 8 | 0 |
| | 9 | GND |
| | 10 | 0 |
| | 11 | 0 |

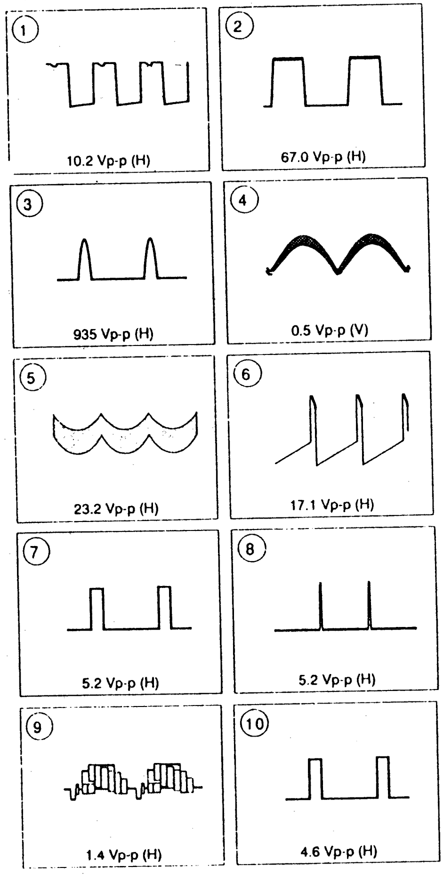
All voltages are in V.

## A BOARD TRANSISTOR VOLTAGE LIST

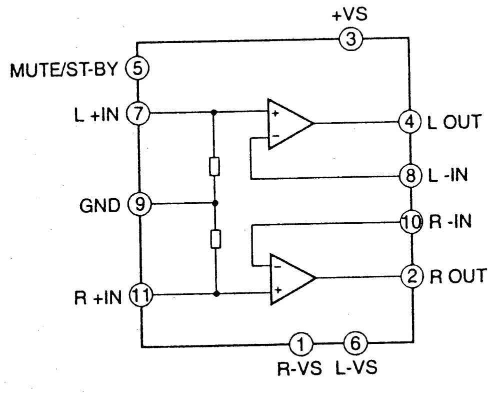
| | B | C | E |
|---|---|---|---|
| Q1001 | -120.0 | 0.3 | -119.7 |
| Q1002 | -3.8 | 36.5 | GND |
| Q1003 | 4.3 | GND | 3.8 |
| Q1004 | 9.2 | 1.9 | 9.8 |
| Q1005 | 2.2 | 9.8 | 1.6 |
| Q1006 | 2.6 | -71.6 | 3.2 |
| Q1007 | 2.7 | -71.6 | 3.2 |
| Q1008 | 1.9 | GND | 2.6 |
| Q1009 | -120.0 | -142.1 | -119.7 |
| Q1010 | -116.6 | -142.1 | -120.9 |
| Q1011 | 12.8 | 0.9 | 12.7 |
| Q1012 | 0.8 | 0.2 | GND |
| Q1013 | 1.8 | 12.7 | 1.5 |
| Q1014 | 0.8 | 0.2 | GND |
| Q1015 | 1.0 | GND | 1.5 |
| Q1016 | GND | 1.0 | 1.0 |
| Q1017 | -2.3 | 12.5 | 1.0 |
| Q1019 | 8.9 | 2.1 | 9.3 |
| Q1020 | 3.3 | 0 | 3.2 |
| Q1021 | 3.3 | GND | 4.0 |
| Q1022 | 4.9 | 9.3 | 4.3 |
| Q1023 | 0 | 2.8 | GND |
| Q1024 | 12.7 | 2.2 | 12.6 |
| Q1025 | 1.2 | 0.3 | 1.2 |
| Q1026 | 0.3 | 0.6 | GND |
| Q3201 | 0.8 | 0 | GND |
| Q3204 | 0 | 12.8 | 0 |
| Q3205 | 0 | 12.8 | 0 |
| Q3206 | 15.2 | 0 | 15.3 |
| Q3207 | 12.8 | 0 | 12.8 |
| Q3208 | 0 | 7.0 | 0 |
| Q3209 | 0.9 | 0.2 | 0 |
| Q3210 | 0 | 0.8 | GND |

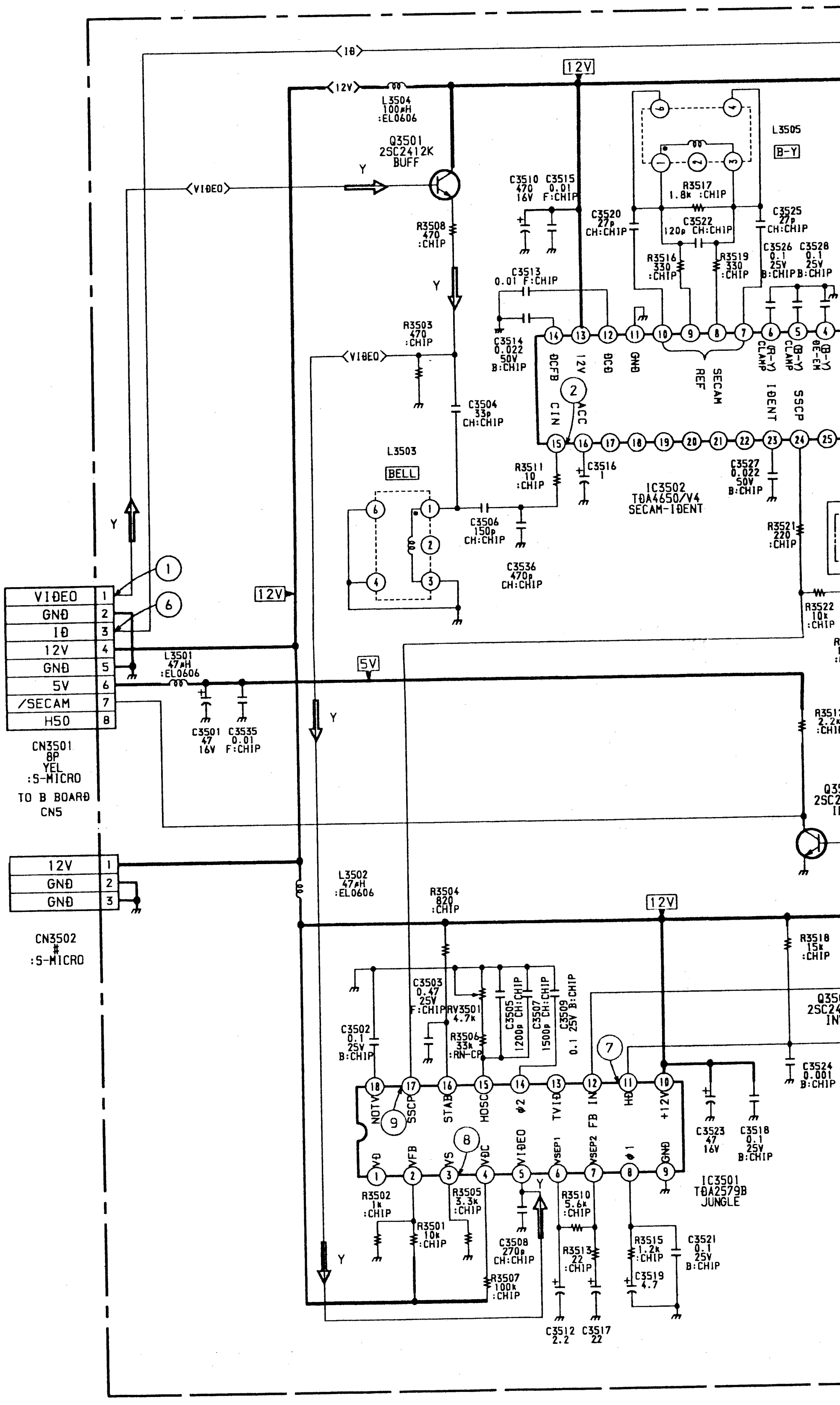
All voltages are in V.

## • A BOARD WAVEFORMS

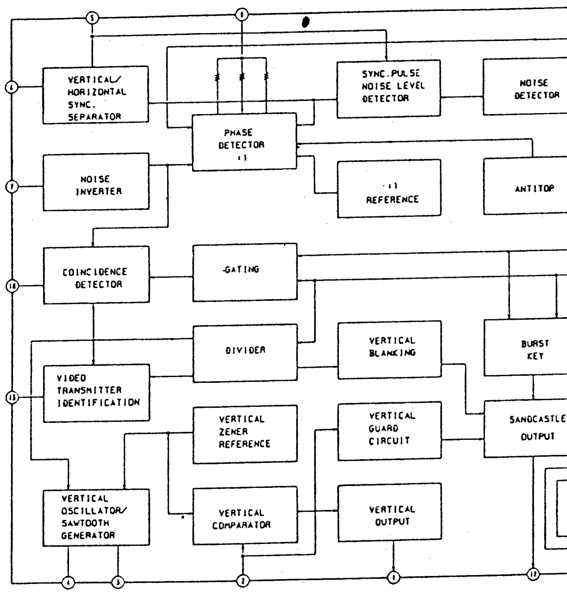


## A BOARD : IC3201 TDA7265

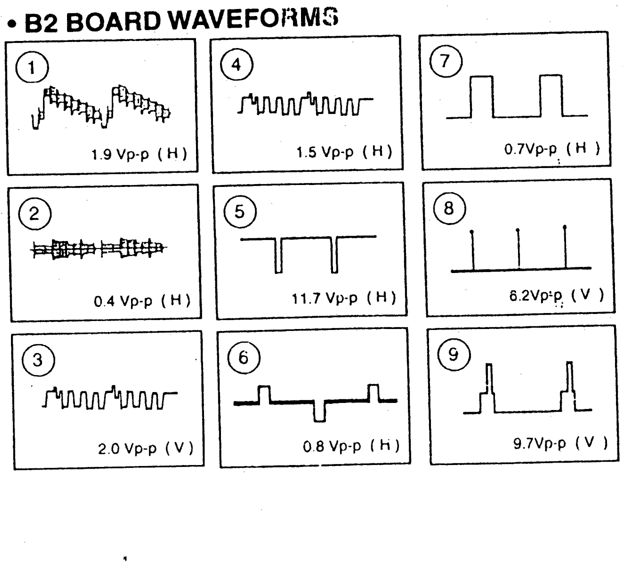

+VS
③
MUTE/ST-BY ⑤
L +IN ⑦
GND ⑨
R +IN ⑪
④ L OUT
⑧ L -IN
⑩ R -IN
② R OUT
① ⑥
R-VS L-VS


12V
VIDEO
L3504 100µH :EL0606
Q3501 2SC2412K BUFF
L3505
B-Y
IC3502 TDA4650/V4 SECAM-IDENT
L3503
BELL
CN3501 8P YEL :S-MICRO TO B BOARD CN5
1 VIDEO
2 GND
3 ID
4 12V
5 GND
6 5V
7 /SECAM
8 HSO
CN3502 3 :S-MICRO
1 12V
2 GND
3 GND
L3501 47µH :EL0606
L3502 47µH :EL0606
5V
IC3501 TDA2579B JUNGLE
Y

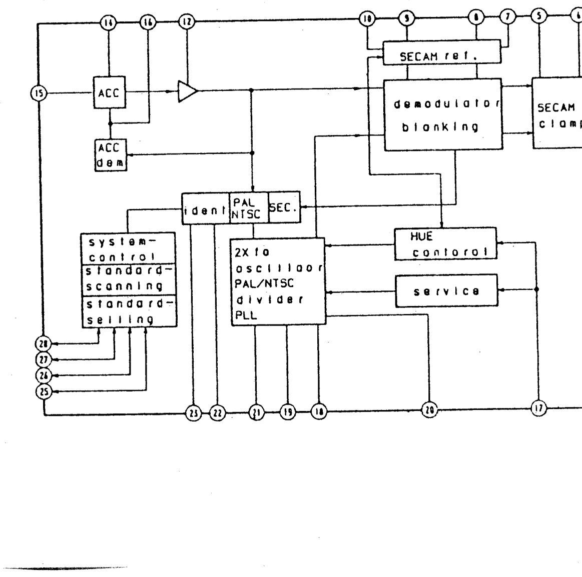
## B2 BOARD : IC3501 TDA2579B


VERTICAL/ HORIZONTAL SYNC. SEPARATOR
PHASE DETECTOR φ1
SYNC. PULSE NOISE LEVEL DETECTOR
NOISE DETECTOR
NOISE INVERTER
φ1 REFERENCE
ANTITOP
COINCIDENCE DETECTOR
GATING
DIVIDER
VERTICAL BLANKING
BURST KEY
VIDEO TRANSMITTER IDENTIFICATION
VERTICAL ZENER REFERENCE
VERTICAL GUARD CIRCUIT
SANDCASTLE OUTPUT
VERTICAL OSCILLATOR/ SAWTOOTH GENERATOR
VERTICAL COMPARATOR
VERTICAL OUTPUT

## • B2 BOARD WAVEFORMS



## B2 BOARD : IC3502 TDA4650/V4


ACC
ACC dem
SECAM ref.
demodulator blanking
SECAM clamp
ident
PAL NTSC
SEC.
system-control
standard-scanning
standard-setting
2X fo oscilloor PAL/NTSC divider PLL
HUE contorol
service

STOR

| E |
|---|
| -119.7 |
| GND |
| 3.8 |
| 9.8 |
| 1.6 |
| 3.2 |
| 3.2 |
| 2.6 |
| -119.7 |
| -120.9 |
| 12.7 |
| GND |
| 1.5 |
| GND |
| 1.5 |
| 1.0 |
| 1.0 |
| 9.3 |
| 3.2 |
| 4.0 |
| 4.3 |
| GND |
| 12.6 |
| 1.2 |
| GND |
| GND |
| 0 |
| 0 |
| 15.3 |
| 12.8 |
| 0 |
| 0 |
| GND |

re in V.

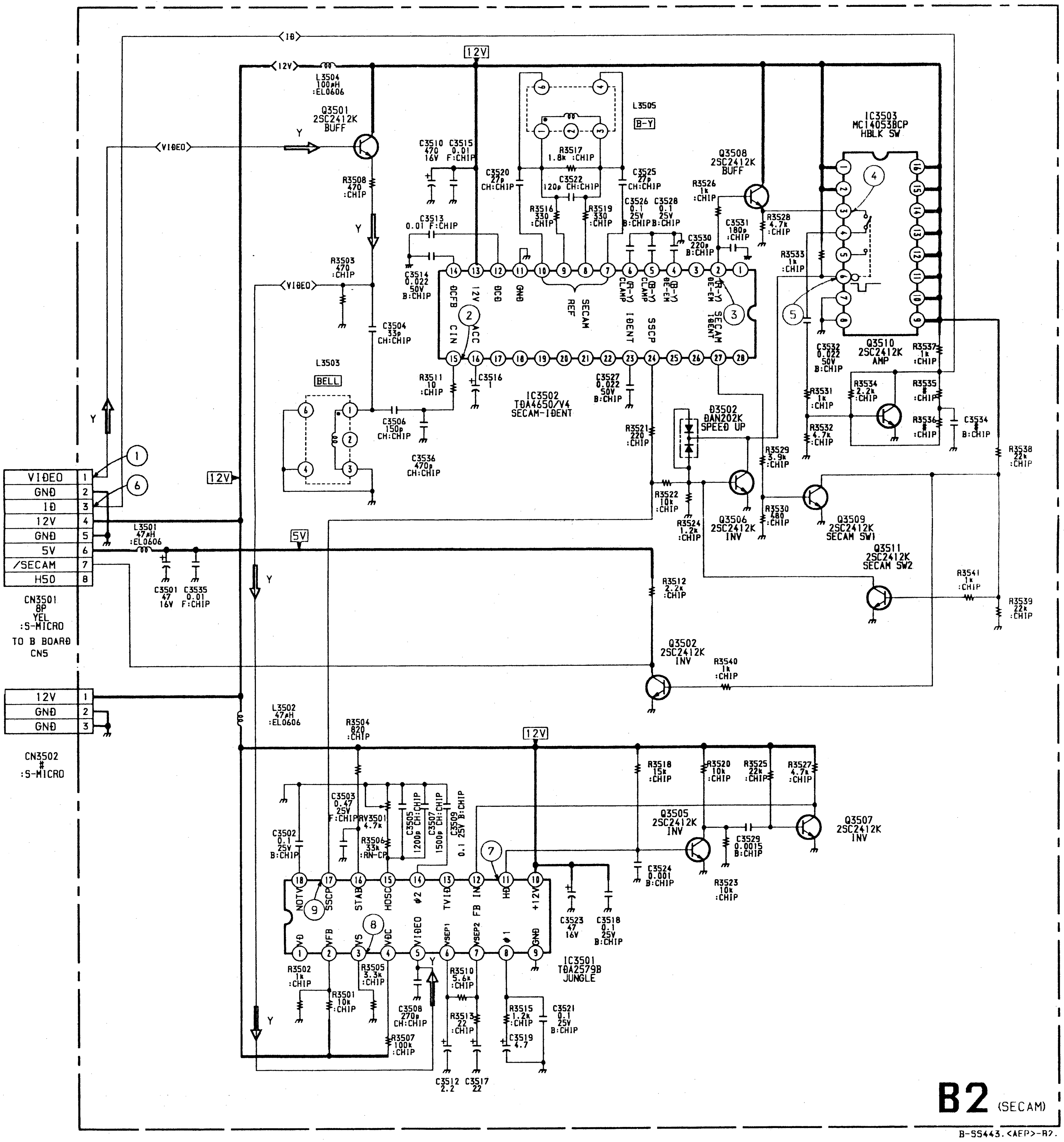
265

L OUT

L -IN

R -IN

R OUT



VIDEO
GND
ID
12V
GND
5V
/SECAM
HSO
CN3501 8P YEL :S-MICRO TO B BOARD CN5
12V
GND
GND
CN3502 3P :S-MICRO
L3504 100µH :EL0606
Q3501 2SC2412K BUFF
L3505 B-Y
IC3503 MC14053BCP HBLK SW
Q3508 2SC2412K BUFF
IC3502 TDA4650/V4 SECAM-IDENT
L3503 BELL
D3502 DAN202K SPEED UP
Q3510 2SC2412K AMP
Q3506 2SC2412K INV
Q3509 2SC2412K SECAM SW1
Q3511 2SC2412K SECAM SW2
Q3502 2SC2412K INV
L3501 47µH :EL0606
L3502 47µH :EL0606
Q3505 2SC2412K INV
Q3507 2SC2412K INV
IC3501 TDA2579B JUNGLE

# B2 (SECAM)

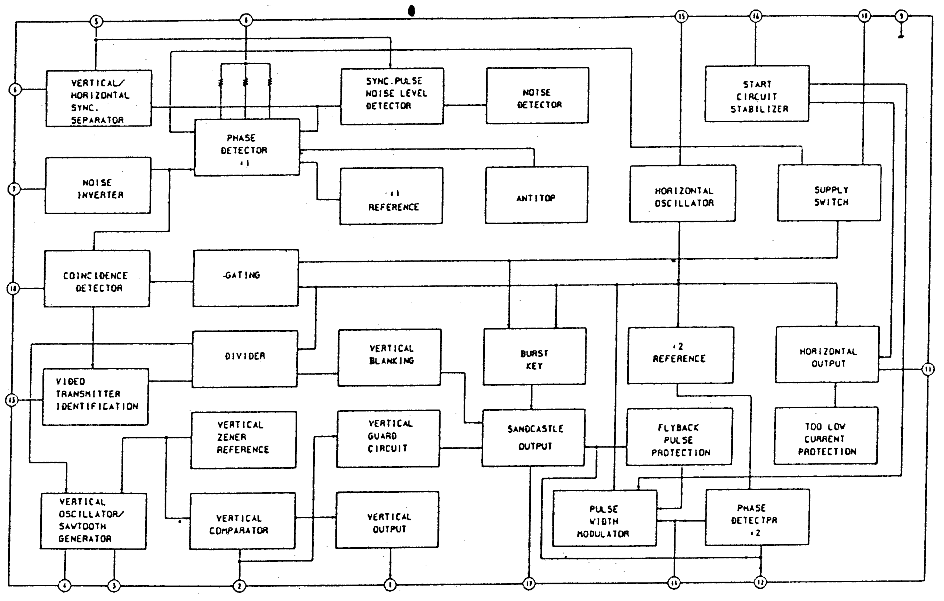
B-SS443.<AEP>-B2.

## B2 BOARD IC VOLTAGE LIST

| | | |
|---|---|---|
| IC3501 | 2 | 1.1 |
| | 3 | 0.3 |
| | 4 | 11.1 |
| | 5 | 2.2 |
| | 6 | 7.6 |
| | 7 | 6.6 |
| | 8 | 2.8 |
| | 9 | GND |
| | 10 | 11.6 |
| | 11 | 0.3 |
| | 12 | 1.2 |
| | 14 | 2.5 |
| | 15 | 4.4 |
| | 16 | 9.1 |
| | 17 | 1.6 |
| | 18 | 6.2 |
| IC3502 | 2 | 7.0 |
| | 4 | 7.0 |
| | 5 | 9.7 |
| | 6 | 9.9 |
| | 7 | 3.4 |
| | 8 | 2.9 |
| | 9 | 2.9 |
| | 10 | 3.4 |
| | 11 | GND |
| | 12 | 2.4 |
| | 13 | 11.6 |
| | 14 | 5.8 |
| | 15 | 3.4 |
| | 16 | 7.9 |
| | 23 | 7.5 |
| | 24 | 1.5 |
| | 27 | 5.7 |
| IC3503 | 1 | 11.6 |
| | 2 | 11.6 |
| | 3 | 6.4 |
| | 4 | 6.4 |
| | 5 | 10.8 |
| | 6 | GND |
| | 7 | GND |
| | 8 | 11.6 |
| | 9 | 11.6 |
| | 10 | 11.6 |
| | 11 | 11.6 |
| | 12 | 11.6 |
| | 13 | 11.6 |
| | 14 | 11.6 |
| | 15 | 11.6 |
| | 16 | 11.6 |

All voltages are in V.
n numbers which are not described are not used.

## B2 BOARD : IC3501 TDA2579B



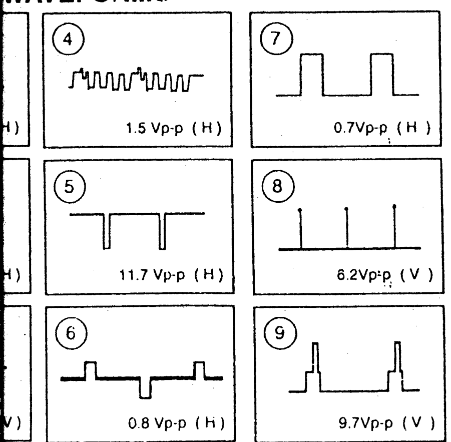
VERTICAL/HORIZONTAL SYNC. SEPARATOR
SYNC.PULSE NOISE LEVEL DETECTOR
NOISE DETECTOR
START CIRCUIT STABILIZER
PHASE DETECTOR ϕ1
NOISE INVERTER
ϕ1 REFERENCE
ANTITOP
HORIZONTAL OSCILLATOR
SUPPLY SWITCH
COINCIDENCE DETECTOR
GATING
DIVIDER
VERTICAL BLANKING
BURST KEY
÷2 REFERENCE
HORIZONTAL OUTPUT
VIDEO TRANSMITTER IDENTIFICATION
VERTICAL ZENER REFERENCE
VERTICAL GUARD CIRCUIT
SANDCASTLE OUTPUT
FLYBACK PULSE PROTECTION
TOO LOW CURRENT PROTECTION
VERTICAL OSCILLATOR/SAWTOOTH GENERATOR
VERTICAL COMPARATOR
VERTICAL OUTPUT
PULSE WIDTH MODULATOR
PHASE DETECTOR ϕ2

## B2 BOARD TRANSISTOR VOLTAGE LIST

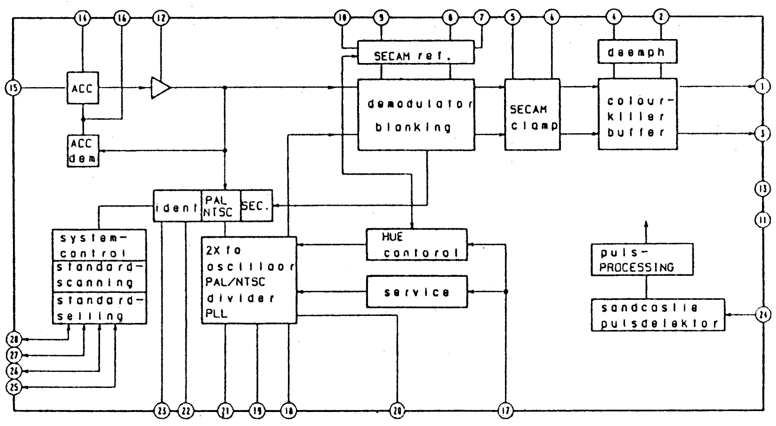
| | B | C | E |
|---|---|---|---|
| Q3501 | 5.1 | 11.6 | 4.4 |
| Q3502 | 0.1 | 4.7 | GND |
| Q3505 | 0.3 | 2.8 | GND |
| Q3506 | 0.2 | 10.8 | GND |
| Q3507 | 0.2 | 1.1 | GND |
| Q3508 | 7.1 | 11.6 | 6.4 |
| Q3509 | 0.7 | 0.1 | GND |
| Q3510 | 6.8 | 1.2 | 0.1 |
| Q3511 | 0.1 | 0.2 | GND |

All voltages are in V.

## WAVEFORMS

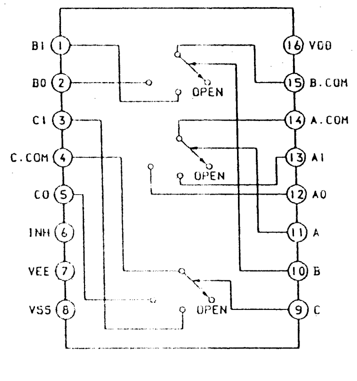


## B2 BOARD : IC3502 TDA4650/V4

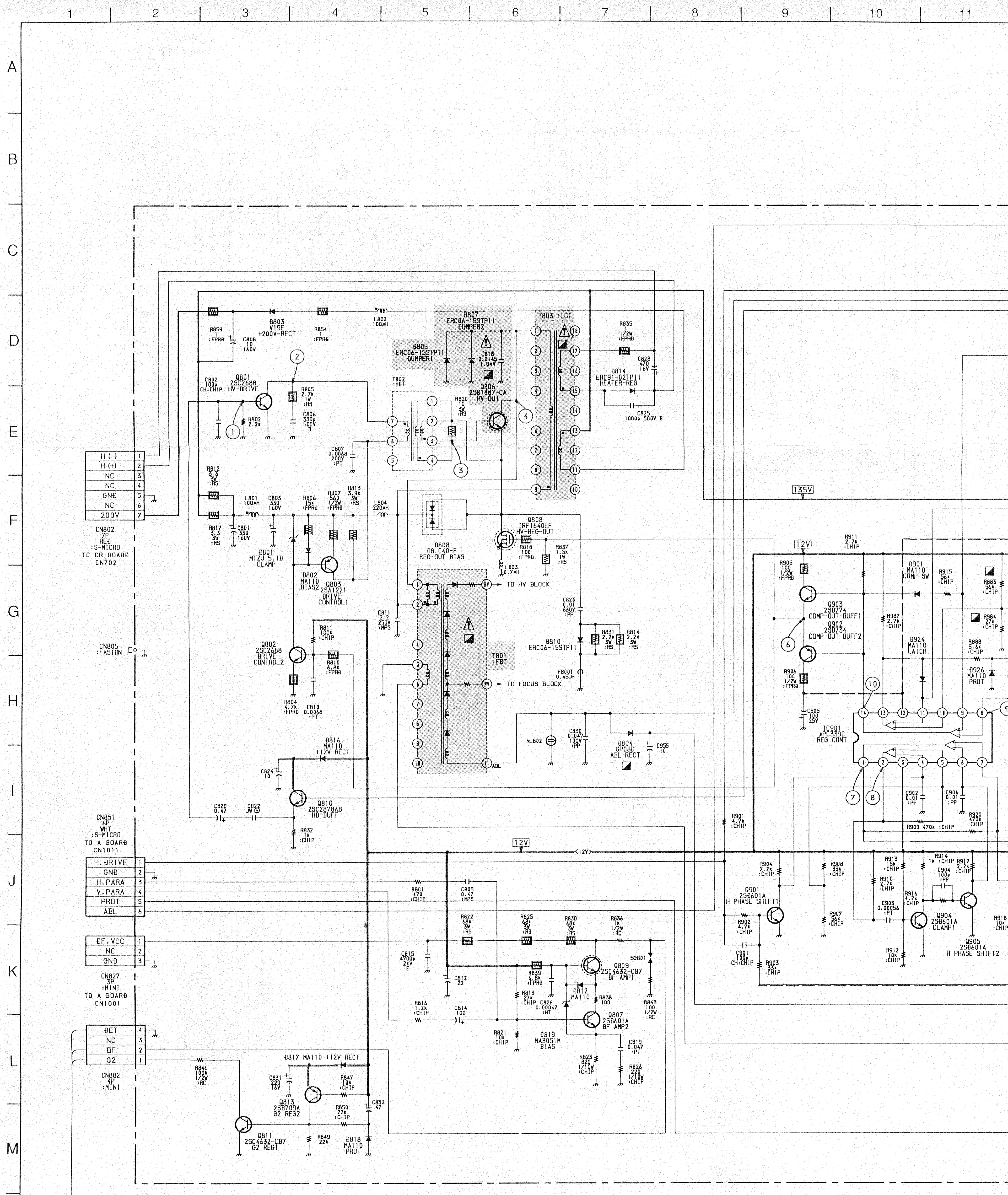


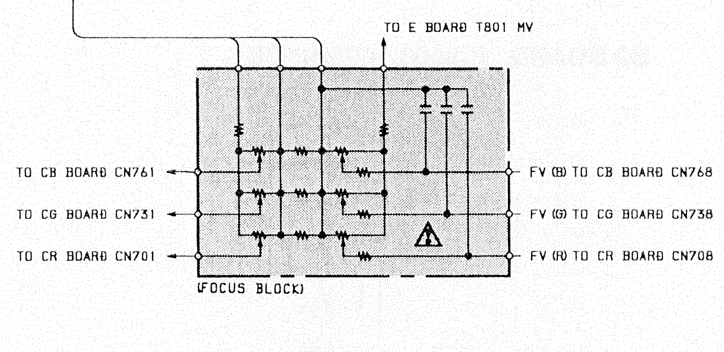
ACC
ACC dem
SECAM ref.
demodulator blanking
SECAM clamp
deemph
colour-killer buffer
ident
PAL NTSC
SEC.
system-control
standard-scanning
standard-setting
2X fo oscillator PAL/NTSC divider PLL
HUE control
service
puls-PROCESSING
sandcastle pulsdetektor

## B2 BOARD : IC3503 µPD4053BC

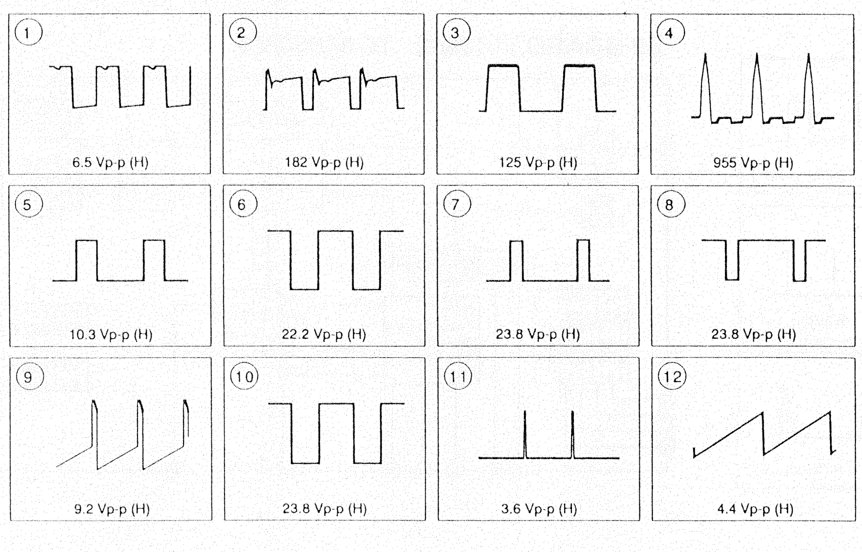


B1
B0
C1
C.COM
C0
INH
VEE
VSS
VDD
B.COM
A.COM
A1
A0
A
B
C
OPEN
OPEN
OPEN


1 2 3 4 5 6 7 8 9 10 11
A B C D E F G H I J K L M N O
CN802 7P RED :S-MICRO TO CR BOARD CN702
H (−)
H (+)
NC
NC
GND
NC
200V
CN805 :FASTON
CN851 6P WHT :S-MICRO TO A BOARD CN1011
H.DRIVE
GND
H.PARA
V.PARA
PROT
ABL
DF.VCC
NC
GND
CN827 3P :MINI TO A BOARD CN1001
DET
NC
DF
G2
CN882 4P :MINI
R859 1 :FPRD
C808 10 160V
D803 V19E +200V-RECT
R854 1 :FPRD
L802 100μH
C802 100p CH:CHIP
Q801 2SC2688 HV-DRIVE
R802 2.2k
R805 2.7k 1W :RS
C806 330p 500V B
D805 ERC06-15STP11 DUMPER1
D807 ERC06-15STP11 DUMPER2
C818 0.0145 1.8kV
Q806 2SD1887-CA HV-OUT
R820 10 3W :RS
T802 :HDT
T803 :LOT
D814 ERC91-02TP11 HEATER-REG
R835 1 1/2W :FPRD
C828 470 16V
C825 1000p 500V B
C807 0.0068 200V :PT
R812 3.3 3W :RS
L801 100μH
C803 330 160V
R806 15k :FPRD
R807 560 1/2W :FPRD
R813 3.9k 3W :RS
L804 220μH
R817 3.3 3W :RS
C801 330 160V
D801 MTZJ-5.1B CLAMP
D802 MA110 BIAS2
Q803 2SA1221 DRIVE-CONTROL1
D808 DBLC40-F REG-OUT BIAS
Q808 IRF1640LF HV-REG-OUT
R818 100 :FPRD
R837 1.5k 1W :RS
L803 0.7μH
135V
12V
TO HV BLOCK
TO FOCUS BLOCK
T801 :FBT
C811 2.2 250V :MPS
C823 0.01 630V :PP
D810 ERC06-15STP11
R831 2.2k 5W :RS
R814 2.2k 5W :RS
FB001 0.45μH
Q802 2SC2688 DRIVE-CONTROL2
R811 100k :CHIP
R810 6.8k :FPRD
R804 4.7k :FPRD
C810 0.0068 :PT
D816 MA110 +12V-RECT
C824 10
Q810 2SC2878AB HD-BUFF
R832 1k :CHIP
C820 0.47
C822 10
NL802
C830 0.047 100V :PP
D804 GP08D ABL-RECT
C955 10
ABL
R801 470 :CHIP
C805 0.47 :MPS
R822 68k 5W :RS
R825 68k 5W :RS
R830 68k 5W :RS
R836 1k 1/2W :RC
C815 4700p 2kV E
C812 22
R839 6.8k :FPRD
SG801
Q809 2SC4632-CB7 DF AMP1
R819 27k :CHIP
C826 0.00047 :HT
D812 MA110
R838 100
R843 100 1/2W :RC
Q807 2SD601A DF AMP2
R816 1.2k :CHIP
C814 100
R821 10k :CHIP
D819 MA3051M BIAS
C819 0.047 :PT
R823 820 1/10W :CHIP
R826 220 1/10W :CHIP
D817 MA110 +12V-RECT
R846 100k 1/2W :RC
C831 220 16V
Q813 2SB709A G2 REG2
R847 10k :CHIP
R850 22k :CHIP
C832 47
Q811 2SC4632-CB7 G2 REG1
R849 22k
D818 MA110 PROT
R911 2.7k :CHIP
R905 100 1/2W :FPRD
D901 MA110 COMP-SW
R915 56k :CHIP
R883 56k :CHIP
Q903 2SB774 COMP-OUT-BUFF1
Q902 2SB734 COMP-OUT-BUFF2
R987 2.7k :CHIP
D924 MA110 LATCH
R984 27k :CHIP
R888 5.6k :CHIP
D926 MA110 PROT
R906 100 1/2W :FPRD
C905 100 25V
IC901 μPC339C REG CONT
C902 0.01 :PP
C906 0.01 :PP
R920 470k :CHIP
R909 470k :CHIP
R901 4.7k :CHIP
R904 2.2k :CHIP
R908 33k :CHIP
R913 15k :CHIP
R914 1k :CHIP
R917 2.2k :CHIP
C904 100p :PP
R910 2.7k :CHIP
R916 4.7k :CHIP
Q901 2SD601A H PHASE SHIFT1
R902 4.7k :CHIP
R907 56k :CHIP
C903 0.00056 :PT
Q904 2SD601A CLAMP1
Q905 2SD601A H PHASE SHIFT2
R918 10k :CHIP
C901 100p CH:CHIP
R903 33k :CHIP
R912 10k :CHIP

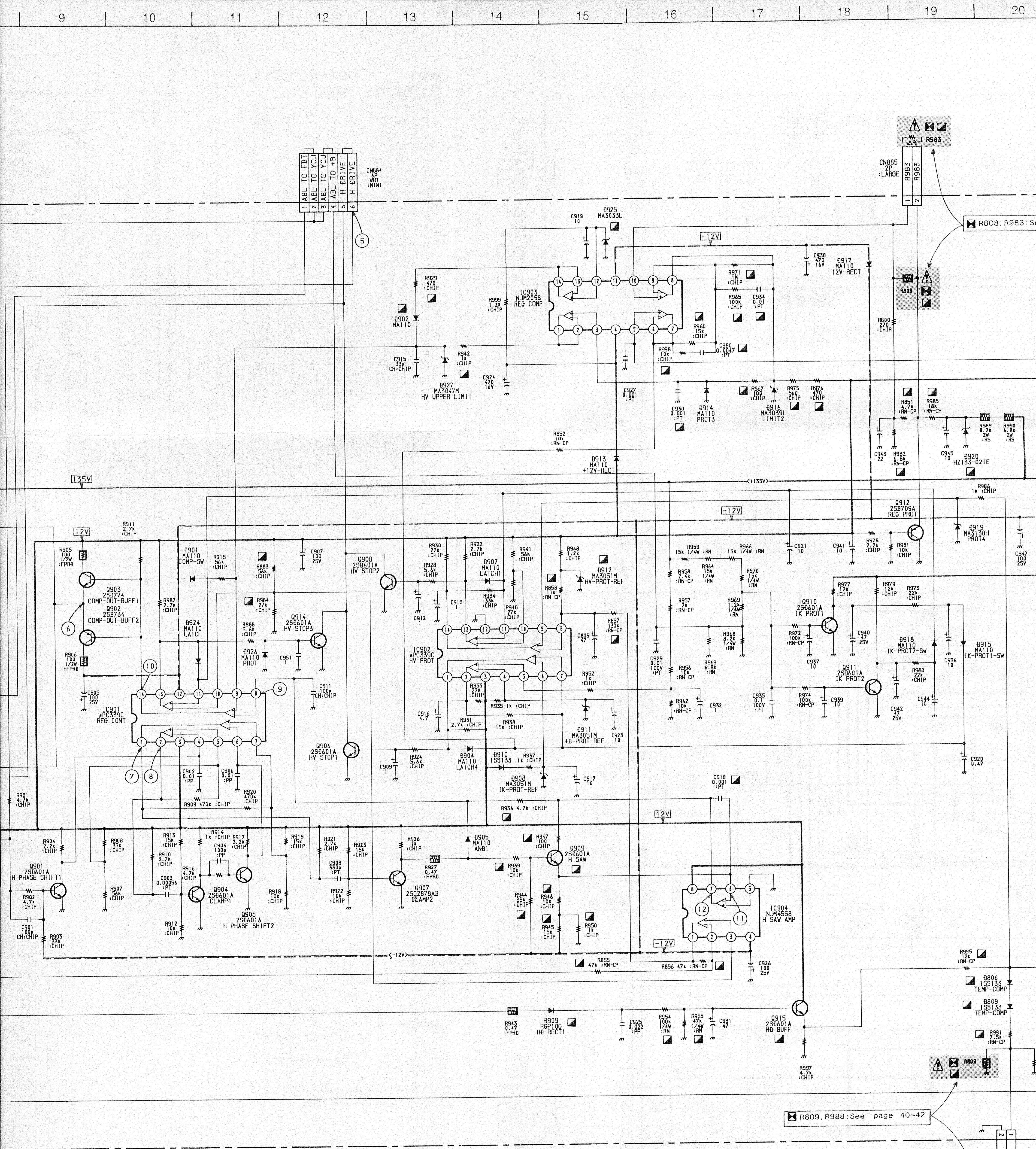

TO E BOARD T801 MV
TO CB BOARD CN761
TO CG BOARD CN731
TO CR BOARD CN701
FV (B) TO CB BOARD CN768
FV (G) TO CG BOARD CN738
FV (R) TO CR BOARD CN708
(FOCUS BLOCK)

## • E BOARD WAVEFORMS



E BOARD IC

| | |
|---|---|
| IC901 | 1 |
| | 2 |
| | 3 |
| | 4 |
| | 5 |
| | 6 |
| | 7 |
| | 8 |
| | 9 |
| | 10 |
| | 11 |
| | 12 |
| | 13 |
| | 14 |


9
10
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14
15
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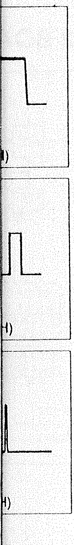
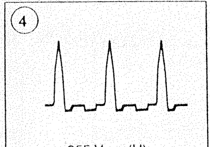
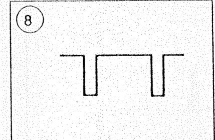
17
18
19
20
CN884 6P WHT :MINI
1 ABL TO FBT
2 ABL TO YCJ
3 ABL TO YCJ
4 ABL TO +B
5 H DRIVE
6 H DRIVE
CN885 2P :LARGE
R983
R808, R983 : S
R808
R800 270 :CHIP
C919 10
D925 MA3033L
-12V
C938 470 16V
D917 MA110 -12V-RECT
R929 470 :CHIP
D902 MA110
R999 1.2k :CHIP
IC903 NJM2058 REG COMP
R971 1M :CHIP
R965 100k :CHIP
C934 0.01 :PT
R960 15k :CHIP
C980 0.0047 :PT
R998 10k :CHIP
C915 33p CH:CHIP
R942 1k :CHIP
C924 470 16V
D927 MA3047M HV UPPER LIMIT
C927 0.001 :PT
C930 0.001 :PT
D914 MA110 PROT3
R967 100 :CHIP
D916 MA3039L LIMIT2
R975 560 :CHIP
R976 470 :CHIP
R851 4.7k :RN-CP
R985 18k :RN-CP
R989 8.2k 2W :RS
R990 6.8k 2W :RS
C943 22
R982 6.8k :RN-CP
C945 10
D920 HZ133-02TE
R852 10k :RN-CP
D913 MA110 +12V-RECT
135V
<+135V>
R986 1k :CHIP
-12V
Q912 2SB709A REG PROT
D919 MA3130H PROT4
C947 100 25V
12V
R911 2.7k :CHIP
R905 100 1/2W :FPRB
Q903 2SB774 COMP-OUT-BUFF1
Q902 2SB734 COMP-OUT-BUFF2
R906 100 1/2W :FPRB
C905 100 25V
IC901 μPC339C REG CONT
D901 MA110 COMP-SW
R915 56k :CHIP
R883 56k :CHIP
C907 100 25V
Q908 2SB601A HV STOP2
R987 2.7k :CHIP
R984 27k :CHIP
D924 MA110 LATCH
R888 5.6k :CHIP
D926 MA110 PROT
C951 1
Q914 2SB601A HV STOP3
C911 100p CH:CHIP
R930 22k :CHIP
R928 5.6k :CHIP
R932 2.7k :CHIP
D907 MA110 LATCH1
R941 56k :CHIP
R948 1.2k :CHIP
D912 MA3051M HV-PROT-REF
R858 11k :RN-CP
C913 1
R934 33k :CHIP
R940 27k :CHIP
C912 1
IC902 μPC339C HV PROT
R857 130k :RN-CP
C809 47
R952 1k :CHIP
R933 22k :CHIP
R935 1k :CHIP
C916 4.7
R931 2.7k :CHIP
R938 15k :CHIP
D911 MA3051M +B-PROT-REF
C923 10
R959 15k 1/4W :RN
R966 15k 1/4W :RN
C921 10
C941 10
R978 2.2k :CHIP
R981 10k :CHIP
R958 2.4k :RN-CP
R964 15k 1/4W :RN
R970 15k 1/4W :RN
R957 2k :RN-CP
R969 1.2k 1/4W :RN
R977 12k :CHIP
R979 12k :CHIP
R973 22k :CHIP
Q910 2SB601A IK PROT1
R968 8.2k 1/4W :RN
R972 100k :RN-CP
C940 47 25V
D918 MA110 IK-PROT2-SW
D915 MA110 IK-PROT1-SW
C929 0.01 100V :PT
R956 10k :RN-CP
R963 6.8k :RN
C937 10
Q911 2SB601A IK PROT2
R980 22k :CHIP
C936 10
R962 10k :RN-CP
C932 1
C935 0.1 100V :PT
R974 100k :RN-CP
C939 10
C942 47 25V
C944 10
Q906 2SB601A HV STOP1
C909 1
R924 5.6k :CHIP
D904 MA110 LATCH4
D910 1SS133
R937 1k :CHIP
D908 MA3051M IK-PROT-REF
C917 10
C920 0.47
C902 0.01 :PP
C906 0.01 :PP
R920 470k :CHIP
R909 470k :CHIP
R936 4.7k :CHIP
C918 0.001 :PT
12V
R901 4.7k :CHIP
R904 2.2k :CHIP
Q901 2SB601A H PHASE SHIFT1
R902 4.7k :CHIP
C901 100p CH:CHIP
R903 33k :CHIP
R908 33k :CHIP
R907 56k :CHIP
R913 15k :CHIP
R910 2.7k :CHIP
C903 0.00056 :PT
R914 1k :CHIP
C904 100p :PP
R917 2.2k :CHIP
R916 4.7k :CHIP
Q904 2SB601A CLAMP1
Q905 2SB601A H PHASE SHIFT2
R912 10k :CHIP
R919 15k :CHIP
R918 10k :CHIP
R921 2.7k :CHIP
C908 330p :PT
R923 15k :CHIP
R922 10k :CHIP
R926 1k :CHIP
R927 0.47 :FPRB
Q907 2SC2878AB CLAMP2
D905 MA110 ANB1
R947 100 :CHIP
Q909 2SB601A H SAW
R939 10k :CHIP
R944 39k :CHIP
R946 10k :CHIP
R945 15k :CHIP
R950 1k :CHIP
IC904 NJM4558 H SAW AMP
-12V
C926 100 25V
R855 47k :RN-CP
R856 47k :RN-CP
<-12V>
R995 12k :RN-CP
D806 1SS133 TEMP-COMP
D809 1SS133 TEMP-COMP
R991 7.5k :RN-CP
R943 0.47 :FPRB
D909 HGP10G HB-RECT1
C925 0.022 :PP
R954 100k 1/4W :RN
R955 47k 1/4W :RN
C931 47
Q915 2SB601A HB BUFF
R997 4.7k :CHIP
R809
R809, R988 : See page 40~42
R988
R986
CN8
:LA

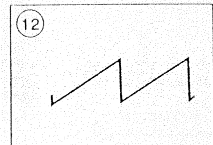




955 Vp-p (H)



23.8 Vp-p (H)



4.4 Vp-p (H)

## E BOARD IC VOLTAGE LIST

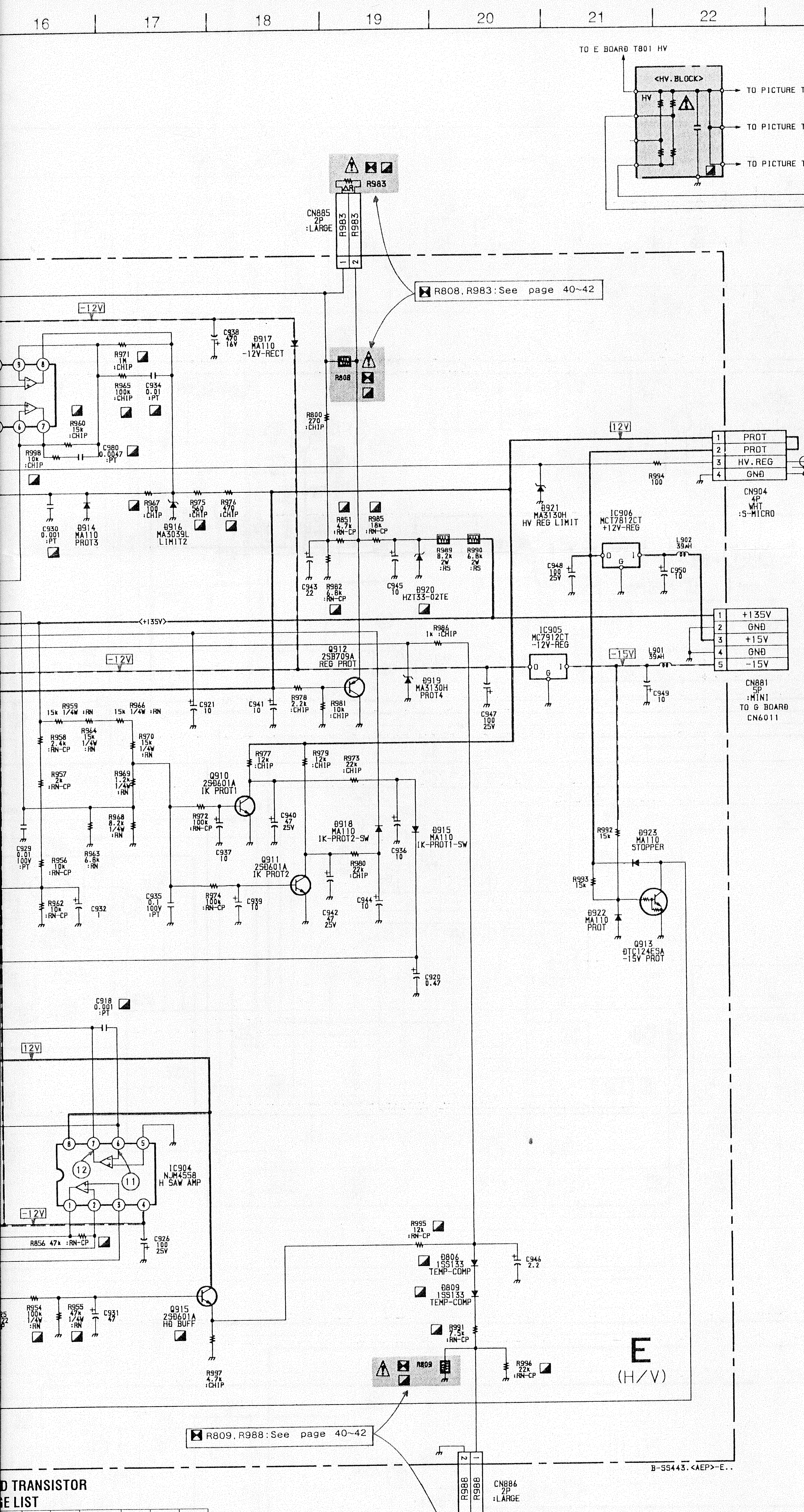
| IC901 | | | IC902 | | | IC903 | | | IC904 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | -5.7 | | 1 | 0.2 | | 1 | 2.4 | | 1 | 3.1 |
| | 2 | 6.8 | | 2 | 0 | | 2 | 2.4 | | 2 | 4.1 |
| | 3 | 12.8 | | 3 | 12.7 | | 3 | 2.4 | | 3 | 4.1 |
| | 4 | 3.8 | | 4 | 5.4 | | 4 | 12.0 | | 4 | -12.5 |
| | 5 | 8.0 | | 5 | 5.0 | | 5 | 7.9 | | 5 | GND |
| | 6 | 7.5 | | 6 | 5.4 | | 6 | 7.9 | | 6 | 0.2 |
| | 7 | 5.0 | | 7 | 4.8 | | 7 | 7.9 | | 7 | 2.3 |
| | 8 | 2.8 | | 8 | 5.2 | | 8 | 2.4 | | 8 | 12.7 |
| | 9 | 2.8 | | 9 | 5.0 | | 9 | 7.8 | IC905 | I | -15.0 |
| | 10 | 4.1 | | 10 | 4.2 | | 10 | 7.8 | | G | GND |
| | 11 | 0 | | 11 | 0 | | 11 | -11.8 | | O | -12.6 |
| | 12 | -12.6 | | 12 | GND | | 12 | 3.6 | IC906 | I | 15.0 |
| | 13 | -12.3 | | 13 | 0.2 | | 13 | 3.5 | | G | GND |
| | 14 | 2.4 | | 14 | 0 | | 14 | 3.5 | | O | 12.8 |

All voltages are in V.

## E BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E | Q905 | 0.2 | 7.5 | GND |
|---|---|---|---|---|---|---|---|
| Q801 | -3.0 | 94.3 | GND | Q906 | 0.2 | 4.2 | GND |
| Q802 | 2.9 | 136.9 | 2.5 | Q907 | 0.5 | 0.7 | GND |
| Q803 | 136.9 | 94.6 | 137.5 | Q908 | 0.2 | 4.2 | GND |
| Q806 | 52.4 | 141.4 | 52.4 | Q909 | -2.2 | 2.3 | 0.2 |
| Q807 | 2.2 | 5.3 | 1.6 | Q910 | 0.7 | 0 | GND |
| Q809 | 6.1 | 365.0 | 5.6 | Q911 | 0.7 | 0 | GND |
| Q810 | 4.2 | 12.0 | 5.9 | Q912 | 10.4 | GND | 11.1 |
| Q811 | 0 | 722.0 | GND | Q913 | -0.5 | 0 | GND |
| Q813 | 12.7 | 0 | 12.7 | Q914 | -0.6 | 4.2 | GND |
| Q901 | -0.8 | 3.8 | GND | Q915 | 8.8 | 12.8 | 8.1 |
| Q902 | 2.4 | -12.1 | 2.3 | | S | G | D |
| Q903 | 2.3 | 12.1 | 2.3 | Q808 | 0 | 2.3 | 52.4 |
| Q904 | 0.5 | 0.9 | GND | | | | |

All voltages are in V.


TO E BOARD T801 HV
<HV.BLOCK>
TO PICTURE TUBE (B) V903
TO PICTURE TUBE (G) V902
TO PICTURE TUBE (R) V901
CN885 2P :LARGE
R983
R808, R983 : See page 40~42
D917 MA110 -12V-RECT
PROT
PROT
HV.REG
GND
CN904 4P WHT :S-MICRO
D921 MA3130H HV REG LIMIT
IC906 MC7812CT +12V-REG
L902 39μH
D914 MA110 PROT3
D916 MA3039L LIMIT2
D920 HZT33-02TE
+135V
GND
+15V
GND
-15V
CN881 5P :MINI TO G BOARD CN6011
IC905 MC7912CT -12V-REG
L901 39μH
Q912 2SB709A REG PROT
D919 MA3130H PROT4
Q910 2SD601A IK PROT1
D918 MA110 IK-PROT2-SW
D915 MA110 IK-PROT1-SW
Q911 2SD601A IK PROT2
D923 MA110 STOPPER
D922 MA110 PROT
Q913 DTC124ESA -15V PROT
IC904 NJM4558 H SAW AMP
D806 1SS133 TEMP-COMP
D809 1SS133 TEMP-COMP
Q915 2SD601A HD BUFF
R809, R988 : See page 40~42
CN886 2P :LARGE
R988
E (H/V)
B-SS443.<AEP>-E..

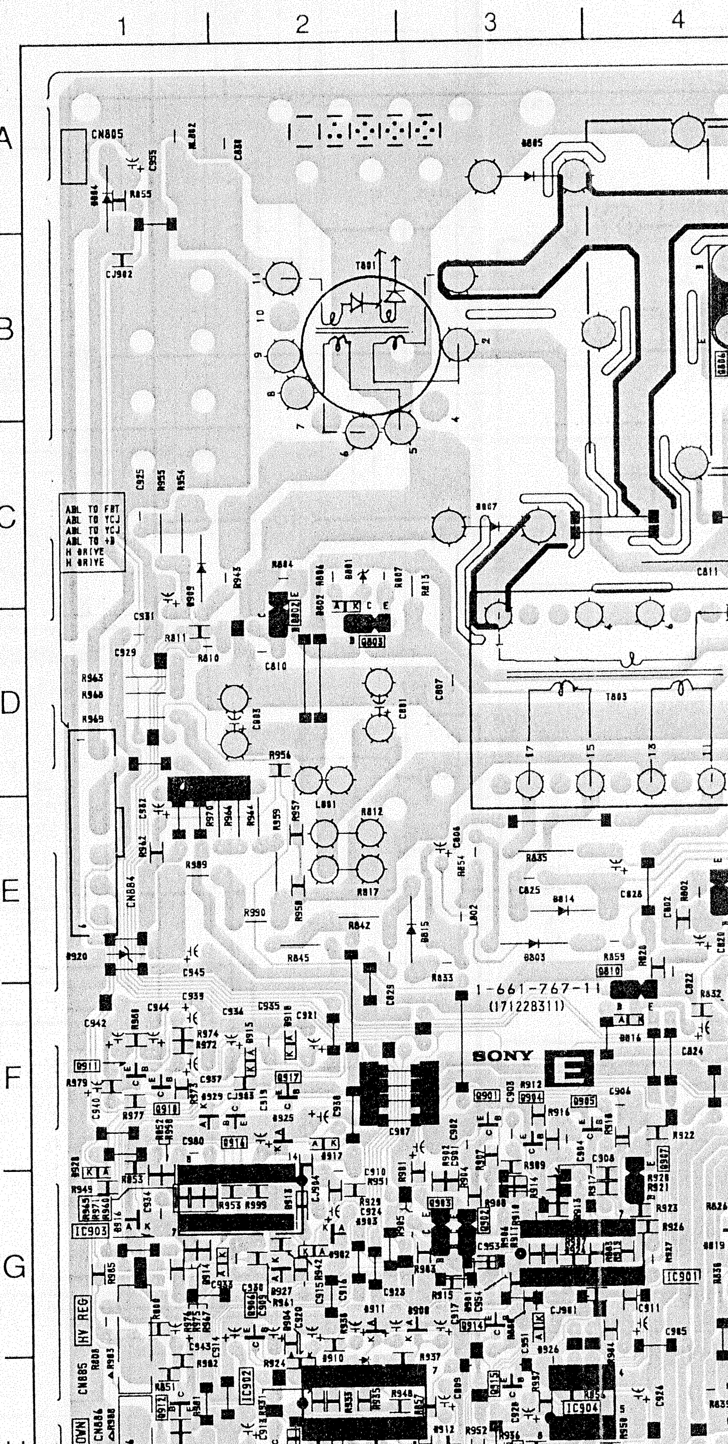
D TRANSISTOR
E LIST

| | | | | | | |
|---|---|---|---|---|---|---|
| B | C | E | Q905 | 0.2 | 7.5 | GND |
| -3.0 | 94.3 | GND | Q906 | 0.2 | 4.2 | GND |
| 2.9 | 136.9 | 2.5 | Q907 | 0.5 | 0.7 | GND |
| 36.9 | 94.6 | 137.5 | Q908 | 0.2 | 4.2 | GND |
| 52.4 | 141.4 | 52.4 | Q909 | -2.2 | 2.3 | 0.2 |
| 2.2 | 5.3 | 1.6 | Q910 | 0.7 | 0 | GND |
| 6.1 | 365.0 | 5.6 | Q911 | 0.7 | 0 | GND |
| 4.2 | 12.0 | 5.9 | Q912 | 10.4 | GND | 11.1 |
| 0 | 722.0 | GND | Q913 | -0.5 | 0 | GND |
| 12.7 | 0 | 12.7 | Q914 | -0.6 | 4.2 | GND |
| -0.8 | 3.8 | GND | Q915 | 8.8 | 12.8 | 8.1 |
| 2.4 | -12.1 | 2.3 | | S | G | D |
| 2.3 | 12.1 | 2.3 | Q808 | 0 | 2.3 | 52.4 |
| 0.5 | 0.9 | GND | | | | |

All voltages are in V.

**E** [H/V]

**- E BOARD -**


1
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3
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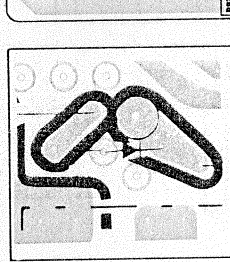
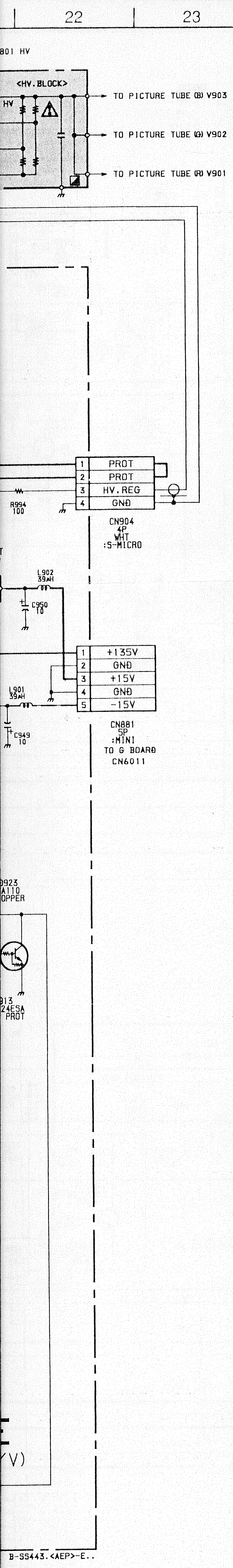
A
B
C
D
E
F
G
H
T801
1-661-767-11
(171228311)
SONY
E



**NOTE:**

The circuit indicated as left contains
600 Vp-p. Care must be paid to preven
inspection or repairing.


22
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27
28
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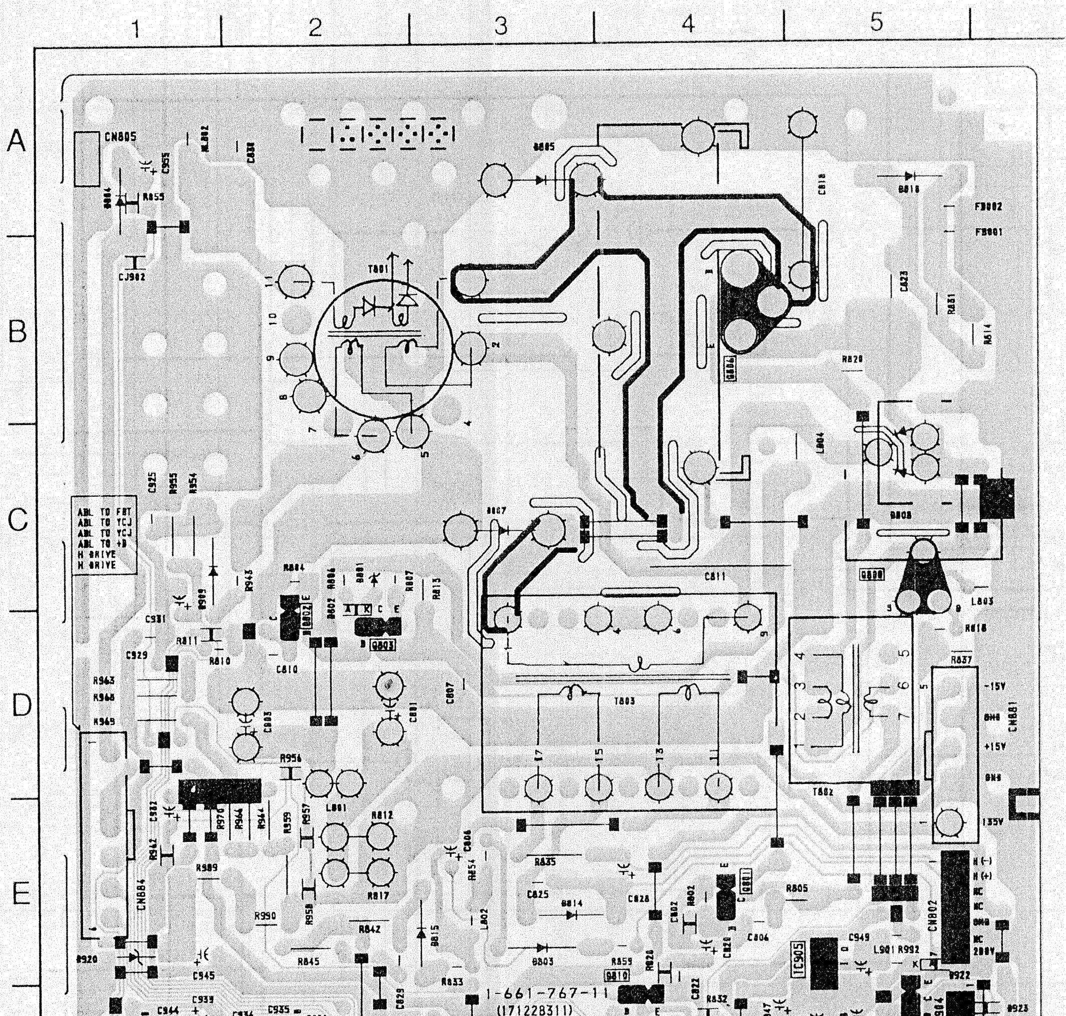
801 HV
<HV.BLOCK>
HV
TO PICTURE TUBE (B) V903
TO PICTURE TUBE (G) V902
TO PICTURE TUBE (R) V901
1 PROT
2 PROT
3 HV.REG
4 GND
R994
100
CN904
4P
WHT
:S-MICRO
L902
39μH
C950
10
1 +135V
2 GND
3 +15V
4 GND
5 -15V
L901
39μH
C949
10
CN881
5P
:MINI
TO G BOARD
CN6011
Q923
A110
OPPER
Q913
24ESA
PROT
V)
B-SS443.<AEP>-E..

**E** [H/V]

## – E BOARD –


1
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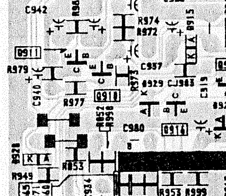
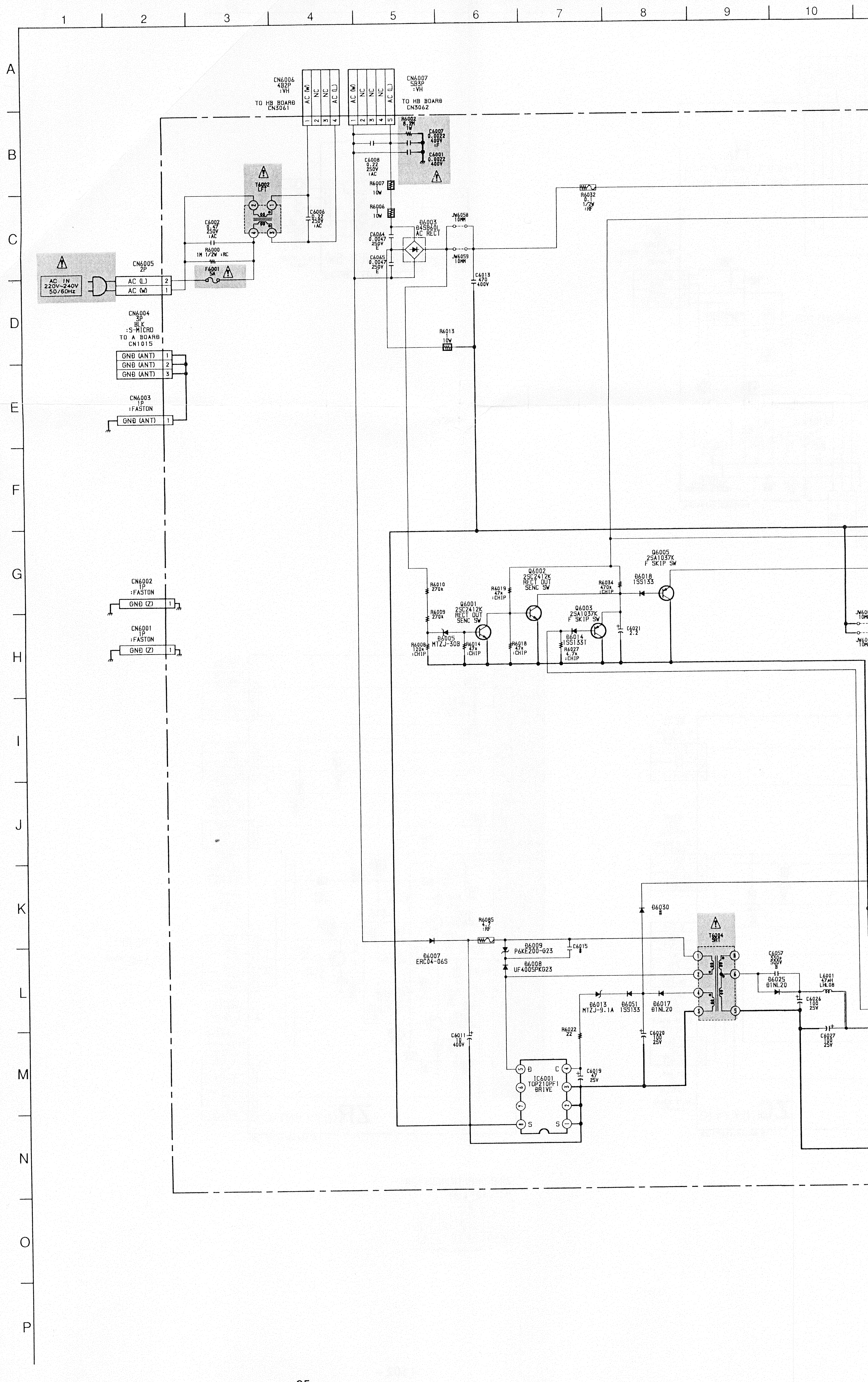
A
B
C
D
E
F
G
H
CN805
T801
T803
T802
CN881
CN802
CN804
CN851
CN827
CN882
CN884
CN885
CN886
IC901
IC902
IC903
IC904
IC905
IC906
HV REG
HOLD DOWN
-15V
+15V
135V
1-661-767-11
(171228311)
SONY
E

| E BOARD | |
|---|---|
| DIODE | |
| D801 | C-2 |
| D802 | C-2 |
| D803 | E-3 |
| D804 | A-1 |
| D805 | A-3 |
| D806 | H-2 |
| D807 | C-3 |
| D808 | C-5 |
| D809 | H-1 |
| D810 | A-5 |
| D812 | H-4 |
| D814 | E-3 |
| D816 | F-4 |
| D817 | H-4 |
| D818 | H-4 |
| D819 | G-4 |
| D901 | G-3 |
| D902 | G-2 |
| D904 | H-2 |
| D905 | H-3 |
| D907 | H-2 |
| D908 | G-3 |
| D909 | C-1 |
| D910 | H-2 |
| D911 | G-2 |
| D912 | H-3 |
| D913 | G-2 |
| D914 | G-2 |
| D915 | F-2 |
| D916 | G-1 |
| D917 | F-2 |
| D918 | F-2 |
| D919 | F-2 |
| D920 | E-1 |
| D921 | F-5 |
| D922 | E-5 |
| D923 | F-6 |
| D924 | G-3 |
| D925 | F-2 |
| D926 | G-3 |
| D927 | G-2 |
| IC | |
| IC901 | G-3 |
| IC902 | H-2 |
| IC903 | G-2 |
| IC904 | H-3 |
| IC905 | E-5 |
| IC906 | F-5 |
| TRANSISTOR | |
| Q801 | E-4 |
| Q802 | D-2 |
| Q803 | D-2 |
| Q806 | B-4 |
| Q807 | F-5 |
| Q808 | C-5 |
| Q809 | G-4 |
| Q810 | F-4 |
| Q811 | H-5 |
| Q813 | H-4 |
| Q901 | F-3 |
| Q902 | G-3 |
| Q903 | G-3 |
| Q904 | F-3 |
| Q905 | F-3 |
| Q906 | G-2 |
| Q907 | G-4 |
| Q908 | H-2 |
| Q909 | H-3 |
| Q910 | F-1 |
| Q911 | F-1 |
| Q912 | H-1 |
| Q913 | F-5 |
| Q914 | G-3 |
| Q915 | H-3 |



**NOTE:**

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

1
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A
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C
D
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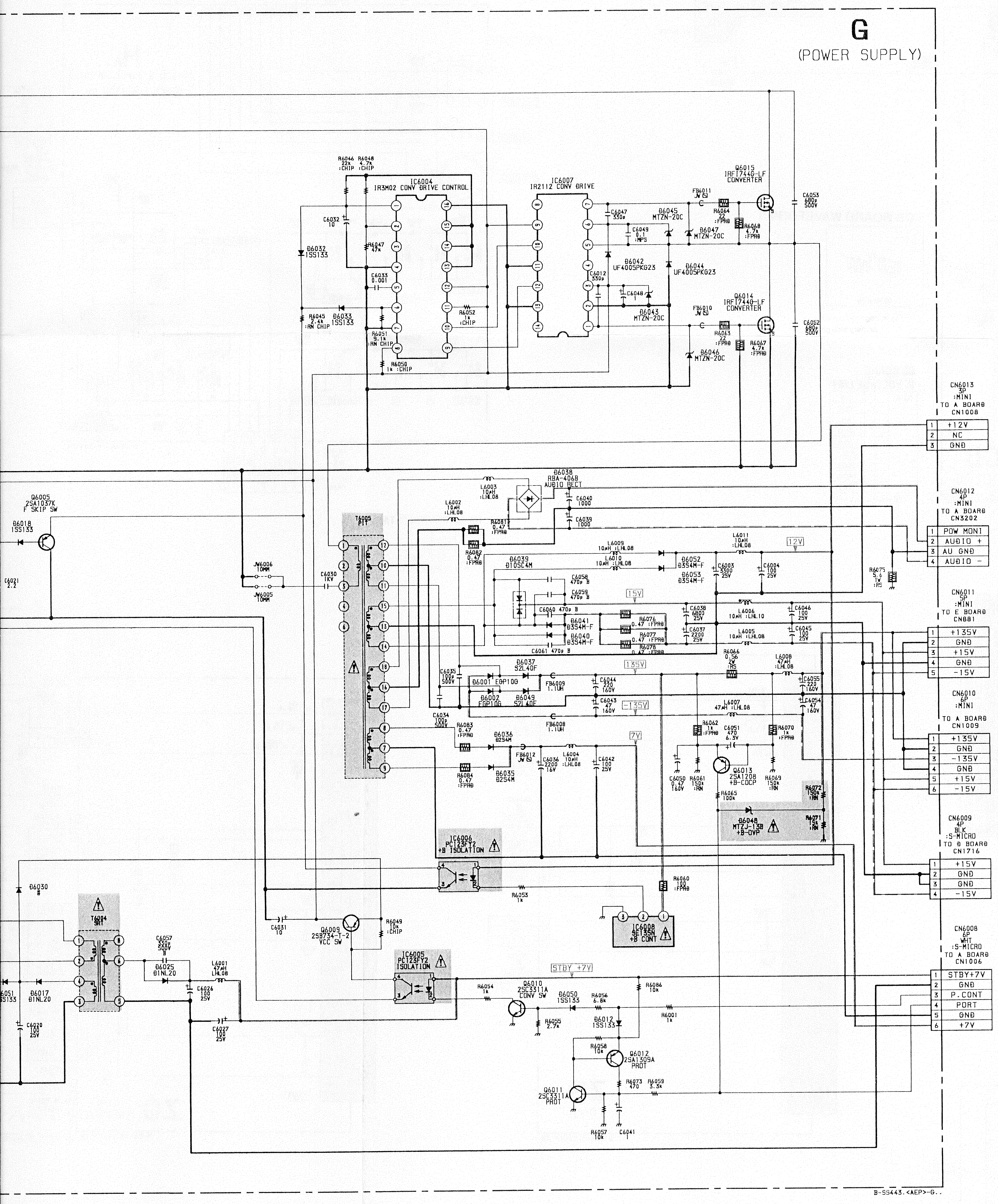
G
H
I
J
K
L
M
N
O
P
CN6006
4B2P
:VH
TO HB BOARD
CN3061
AC (W)
NC
NC
AC (L)
CN6007
5B3P
:VH
TO HB BOARD
CN3062
AC (W)
NC
NC
NC
AC (L)
R6002
8.2M
1W
C6007
0.0022
400V
:F
C6001
0.0022
400V
C6008
0.22
250V
:AC
R6007
1
10W
R6006
1
10W
T6002
LFT
C6006
0.22
250V
:AC
C6002
0.47
250V
:AC
R6000
1M 1/2W :RC
F6001
5A
AC IN
220V~240V
50/60Hz
CN6005
2P
AC (L)
AC (W)
D6003
D4SB60L
AC RECT
C6064
0.0047
250V
E
C6065
0.0047
250V
E
JW6058
10MM
JW6059
10MM
C6013
470
400V
R6032
0.1
1/2W
:RF
R6013
1
10W
CN6004
3P
BLK
:S-MICRO
TO A BOARD
CN1015
GND (ANT)
GND (ANT)
GND (ANT)
CN6003
1P
:FASTON
GND (ANT)
CN6002
1P
:FASTON
GND (Z)
CN6001
1P
:FASTON
GND (Z)
Q6005
2SA1037K
F SKIP SW
Q6002
2SC2412K
RECT OUT
SENC SW
R6010
270k
R6009
270k
R6019
47k
:CHIP
Q6001
2SC2412K
RECT OUT
SENC SW
R6034
470k
:CHIP
D6018
1SS133
Q6003
2SA1037K
F SKIP SW
C6021
2.2
D6005
MTZJ-30B
R6008
120k
:CHIP
R6014
47k
:CHIP
R6018
47k
:CHIP
D6014
1SS133T
R6027
4.7k
:CHIP
D6030
#
R6085
4.7
:RF
D6009
P6KE200-G23
C6015
#
D6008
UF4005PKG23
D6007
ERC04-06S
T6004
SRT
C6057
330p
500V
B
D6025
D1NL20
L6001
47μH
LHL08
C6026
100
25V
C6027
100
25V
D6013
MTZJ-9.1A
D6051
1SS133
D6017
D1NL20
R6022
22
C6020
100
25V
C6011
10
400V
C6019
47
25V
IC6001
TOP210PF1
DRIVE
D
C
S
S


G
(POWER SUPPLY)
IC6004 IR3M02 CONV DRIVE CONTROL
IC6007 IR2112 CONV DRIVE
Q6015 IRFI744G-LF CONVERTER
Q6014 IRFI744G-LF CONVERTER
CN6013 3P :MINI TO A BOARD CN1008
+12V
NC
GND
CN6012 4P :MINI TO A BOARD CN3202
POW MONI
AUDIO +
AU GND
AUDIO -
CN6011 5P :MINI TO E BOARD CN881
+135V
GND
+15V
GND
-15V
CN6010 6P :MINI TO A BOARD CN1009
+135V
GND
-135V
GND
+15V
-15V
CN6009 4P BLK :S-MICRO TO B BOARD CN1716
+15V
GND
GND
-15V
CN6008 6P WHT :S-MICRO TO A BOARD CN1006
STBY+7V
GND
P.CONT
PORT
GND
+7V
T6005 PIT
T6004 SRT
D6038 RBA-406B AUDIO RECT
IC6006 PC123FY2 +B ISOLATION
IC6005 PC123FY2 ISOLATION
IC6008 SE135N +B CONT
Q6005 2SA1037K F SKIP SW
Q6009 2SB734-T-2 VCC SW
Q6010 2SC3311A CONV SW
Q6011 2SC3311A PROT
Q6012 2SA1309A PROT
Q6013 2SA1208 +B-COCP
D6048 MTZJ-13B +B-OVP
12V
15V
135V
-135V
7V
STBY +7V
B-SS443.<AEP>-G..

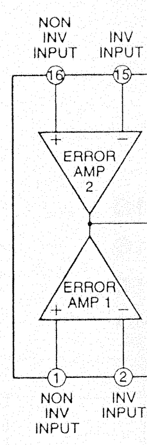
G BOARD IC V

| | | |
|---|---|---|
| • IC6001 | 1 | |
| | 2 | |
| | 3 | |
| | 4 | |
| | 5 | |
| | 6 | |
| | 7 | |
| | 8 | |
| IC6004 | 1 | |
| | 2 | |
| | 3 | |
| | 4 | |
| | 5 | |
| | 6 | |
| | 7 | |
| | 8 | |
| | 9 | |
| | 10 | |
| | 11 | |
| | 12 | |
| | 13 | |
| | 14 | |
| | 15 | |
| | 16 | |

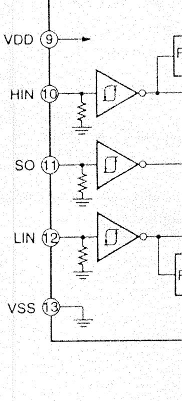
G BOARD TRA
VOLTAGE LIST

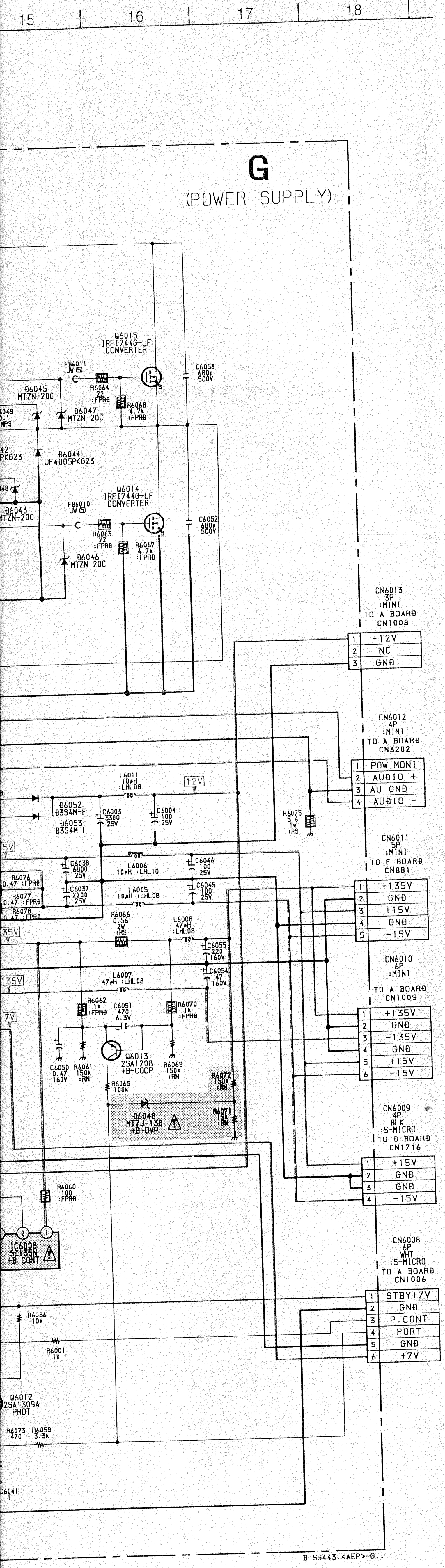
| | B |
|---|---|
| • Q6001 | 0.8 |
| • Q6002 | 0 |
| • Q6003 | * |
| • Q6005 | 3.9 |
| • Q6009 | 15.3 |
| Q6010 | 0.8 |
| Q6011 | 0 |
| Q6012 | 8.3 |
| Q6013 | 140.5 |
| | S |
| • Q6014 | GND |
| • Q6015 | 130.0 |

G BOARD


NON INV INPUT
INV INPUT
ERROR AMP 2
ERROR AMP 1
NON INV INPUT
INV INPUT

G BOARD


VDD
HIN
SO
LIN
VSS


15
16
17
18
G
(POWER SUPPLY)
Q6015
IRF7744G-LF
CONVERTER
Q6014
IRF7744G-LF
CONVERTER
FB6011
FB6010
C6053 680p 500V
C6052 680p 500V
D6045 MTZN-20C
D6047 MTZN-20C
D6044 UF4005PKG23
D6043 MTZN-20C
D6046 MTZN-20C
R6064 22 :FPRB
R6068 4.7k :FPRB
R6063 22 :FPRB
R6067 4.7k :FPRB
CN6013 3P :MINI TO A BOARD CN1008
+12V
NC
GND
CN6012 4P :MINI TO A BOARD CN3202
POW MONI
AUDIO +
AU GND
AUDIO −
CN6011 5P :MINI TO E BOARD CN881
+135V
GND
+15V
GND
−15V
CN6010 6P :MINI TO A BOARD CN1009
+135V
GND
−135V
GND
+15V
−15V
CN6009 4P BLK :S-MICRO TO B BOARD CN1716
+15V
GND
GND
−15V
CN6008 6P WHT :S-MICRO TO A BOARD CN1006
STBY+7V
GND
P.CONT
PORT
GND
+7V
L6011 10μH :LHL08
12V
D6052 D3S4M-F
D6053 D3S4M-F
C6003 3300 25V
C6004 100 25V
R6075 5.6 1W :RS
C6038 6800 25V
C6037 2200 25V
L6006 10μH :LHL10
L6005 10μH :LHL08
C6046 100 25V
C6045 100 25V
R6076 0.47 :FPRB
R6077 0.47 :FPRB
R6078 0.47 :FPRB
R6066 0.56 2W :RS
L6008 47μH :LHL08
C6055 220 160V
C6054 47 160V
L6007 47μH :LHL08
R6062 1k :FPRB
C6051 470 6.3V
R6070 1k :FPRB
Q6013 2SA1208 +B-COCP
C6050 0.47 160V
R6061 150k :RN
R6069 150k :RN
R6065 100k
R6072 150k :RN
R6071 15k :RN
D6048 MTZJ-13B +B-OVP
R6060 100 :FPRB
IC6008 SE135N +B CONT
R6086 10k
R6001 1k
Q6012 2SA1309A PROT
R6073 470
R6059 3.3k
C6041
B-SS443.<AEP>-G..

## G BOARD IC VOLTAGE LIST

| | | | | | |
|---|---|---|---|---|---|
| • IC6001 | 1 | GND | IC6005 | 1 | 8.3 |
| | 2 | GND | | 2 | 7.1 |
| | 3 | GND | | • 3 | 15.1 |
| | 4 | 6.0 | | • 4 | 15.3 |
| | 5 | 260.0 | IC6006 | 1 | 13.8 |
| | 6 | – | | 2 | 12.8 |
| | 7 | – | | • 3 | GND |
| | 8 | GND | | • 4 | 2.9 |
| IC6004 | 1 | 3.9 | • IC6007 | 1 | 6.9 |
| | 2 | 4.9 | | 2 | GND |
| | 3 | – | | 3 | 16.0 |
| | 4 | GND | | 4 | – |
| | 5 | 1.7 | | 5 | 130.0 |
| | 6 | 3.9 | | 6 | 146.0 |
| | 7 | GND | | 7 | 137.0 |
| | 8 | 16.0 | | 8 | – |
| | 9 | 7.0 | | 9 | 16.0 |
| | 10 | 6.9 | | 10 | 6.9 |
| | 11 | 16.0 | | 11 | GND |
| | 12 | 16.0 | | 12 | 6.9 |
| | 13 | 5.4 | | 13 | GND |
| | 14 | 5.4 | | 14 | – |
| | 15 | 5.4 | IC6008 | 1 | 141 |
| | 16 | GND | | 2 | 12.3 |
| | | | | 3 | GND |

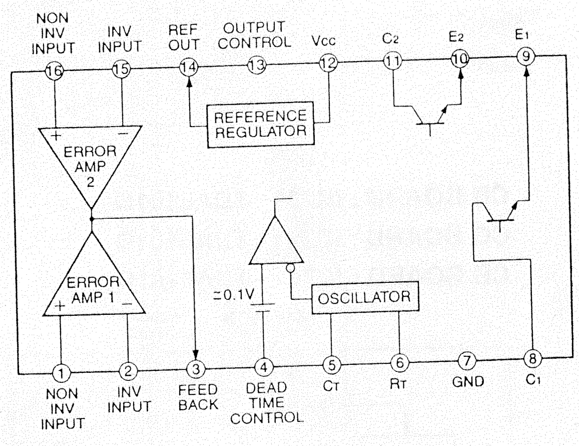
All voltages are in V.
– : Not used.
· : The voltage difference from primary side ground.

## G BOARD TRANSISTOR VOLTAGE LIST

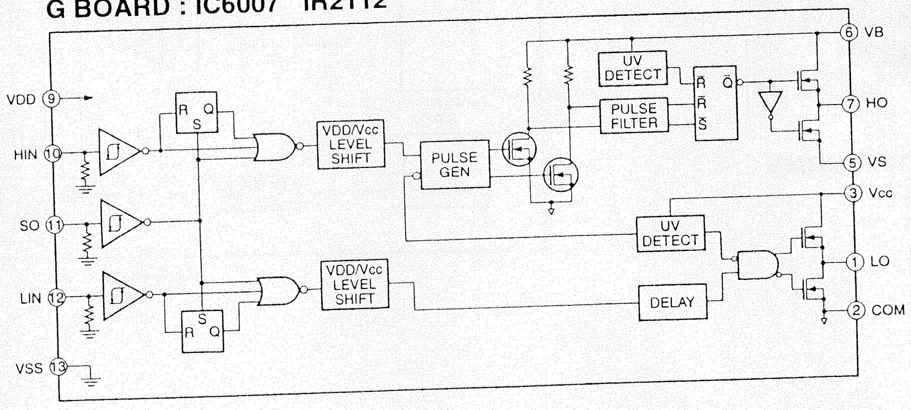
| | B | C | E |
|---|---|---|---|
| • Q6001 | 0.8 | 0 | GND |
| • Q6002 | 0 | 15.4 | GND |
| • Q6003 | * | GND | 15.4 |
| • Q6005 | 3.9 | GND | 2.9 |
| • Q6009 | 15.3 | 16.0 | 16.1 |
| Q6010 | 0.8 | 0.2 | GND |
| Q6011 | 0 | 8.3 | GND |
| Q6012 | 8.3 | 0 | 8.3 |
| Q6013 | 140.5 | 0 | 140.7 |
| | S | G | D |
| • Q6014 | GND | 6.8 | 130.0 |
| • Q6015 | 130.0 | 136.0 | 259.0 |

All voltages are in V.
*:Can not mesured.
· : The voltage difference from primary side ground.

## G BOARD : IC6004 IR3M02

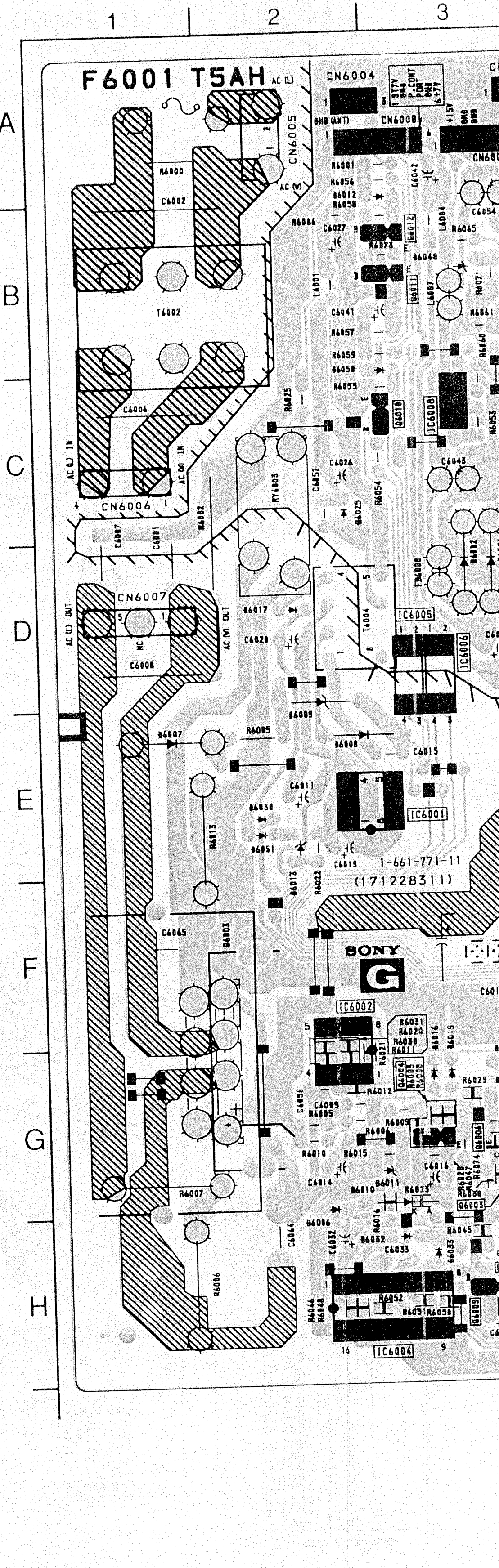

NON INV INPUT
INV INPUT
REF OUT
OUTPUT CONTROL
Vcc
C2
E2
E1
16
15
14
13
12
11
10
9
REFERENCE REGULATOR
ERROR AMP 2
ERROR AMP 1
≡0.1V
OSCILLATOR
1
2
3
4
5
6
7
8
NON INV INPUT
INV INPUT
FEED BACK
DEAD TIME CONTROL
CT
RT
GND
C1

## G BOARD : IC6007 IR2112


VDD 9
HIN 10
SO 11
LIN 12
VSS 13
R Q S
S R Q
VDD/Vcc LEVEL SHIFT
VDD/Vcc LEVEL SHIFT
PULSE GEN
UV DETECT
PULSE FILTER
R Q R S
UV DETECT
DELAY
6 VB
7 HO
5 VS
3 Vcc
1 LO
2 COM

**G** [POWER SUPPLY]

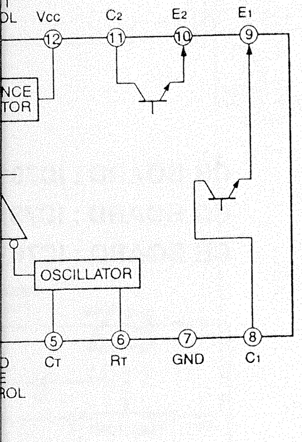
– G BOARD –


1
2
3
A
B
C
D
E
F
G
H
F6001 T5AH
CN6004
CN6005
CN6006
CN6007
T6002
IC6001
IC6002
IC6004
IC6005
SONY
G
1-661-771-11
(171228311)

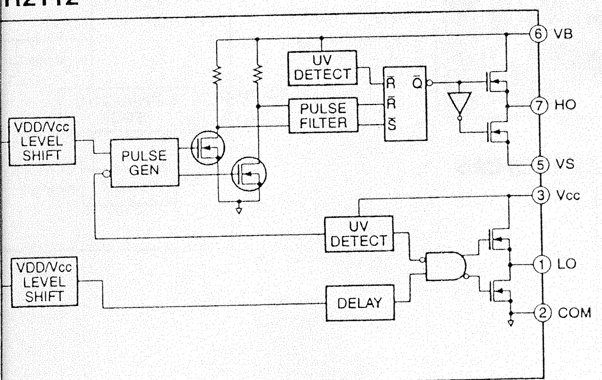
| |
|---|
| 8.3 |
| 7.1 |
| 15.1 |
| 15.3 |
| 13.8 |
| 12.8 |
| GND |
| 2.9 |
| 6.9 |
| GND |
| 16.0 |
| – |
| 130.0 |
| 146.0 |
| 137.0 |
| – |
| 16.0 |
| 6.9 |
| GND |
| 6.9 |
| GND |
| – |
| 141 |
| 12.3 |
| GND |

are in V.
Not used.
nce from
ground.

## R3M02

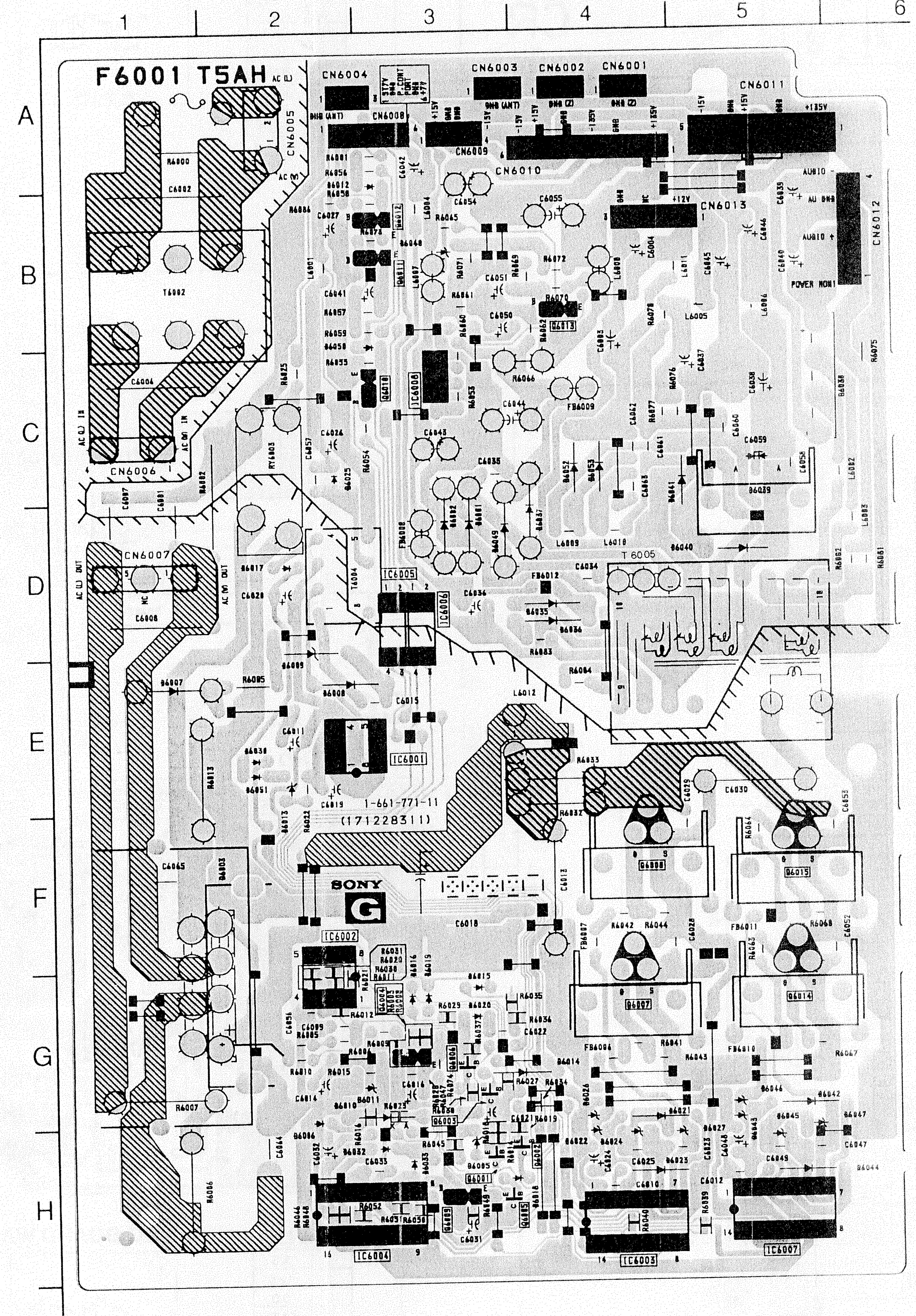

T
OL
Vcc
C2
E2
E1
12
11
10
9
NCE
TOR
OSCILLATOR
5
6
7
8
CT
RT
GND
C1
D
E
ROL

## R2112


UV
DETECT
PULSE
FILTER
R
R
S
Q̄
6
VB
7
HO
5
VS
3
Vcc
VDD/Vcc
LEVEL
SHIFT
PULSE
GEN
UV
DETECT
1
LO
VDD/Vcc
LEVEL
SHIFT
DELAY
2
COM

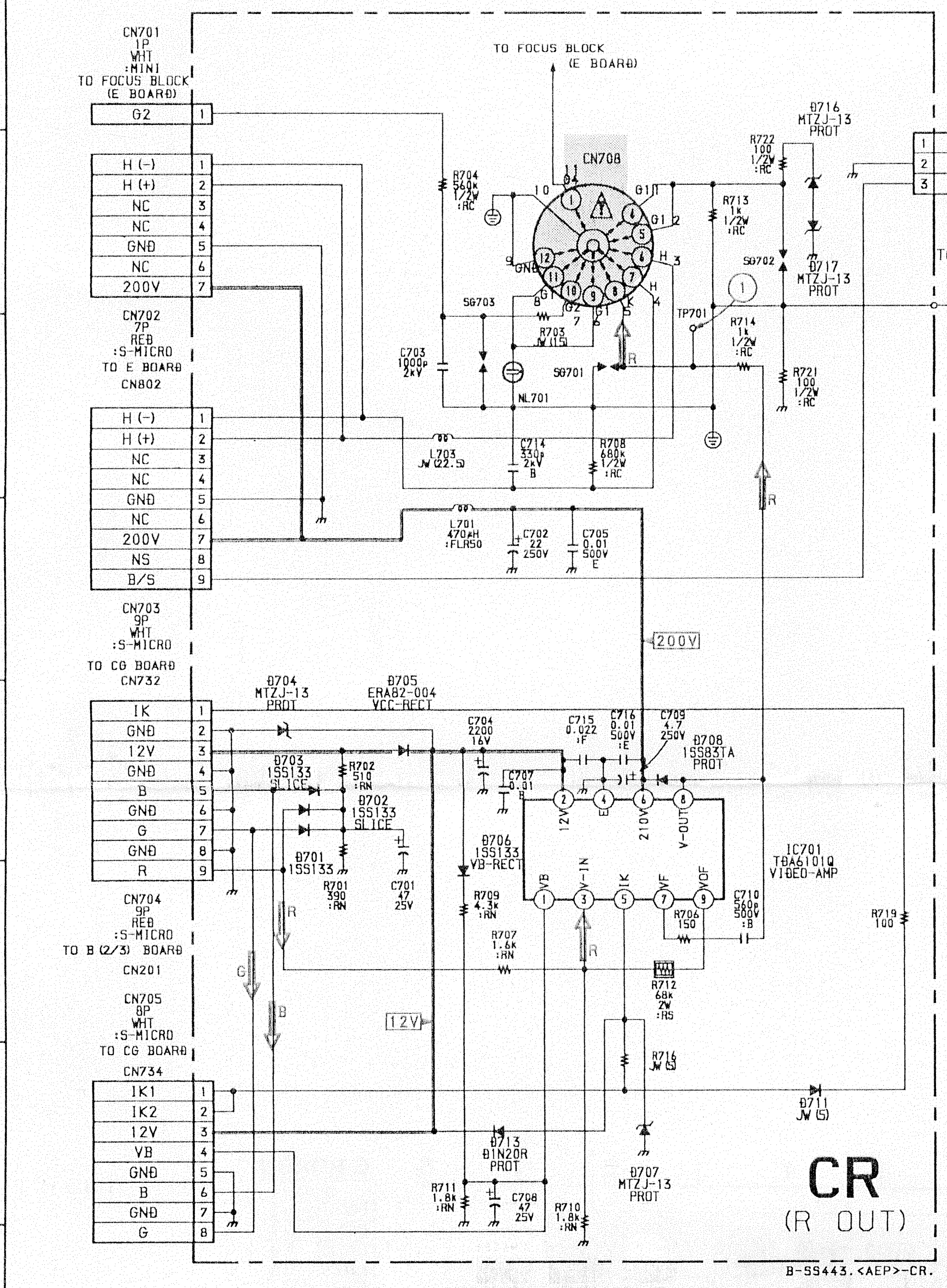
## G [POWER SUPPLY]

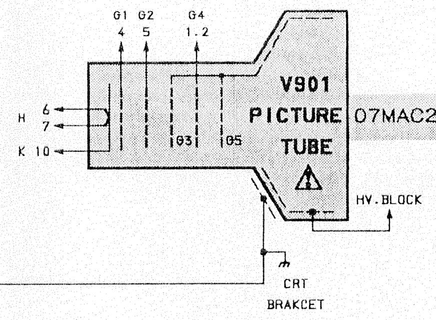
### – G BOARD –


1
2
3
4
5
6
A
B
C
D
E
F
G
H
F6001 T5AH
CN6004
CN6008
CN6003
CN6002
CN6001
CN6011
CN6005
CN6009
CN6010
CN6013
CN6012
T6002
CN6006
CN6007
T6005
IC6005
IC6006
IC6001
IC6002
IC6004
IC6003
IC6007
1-661-771-11
(17122831 1)
SONY
G
POWER NOM1

### G BOARD

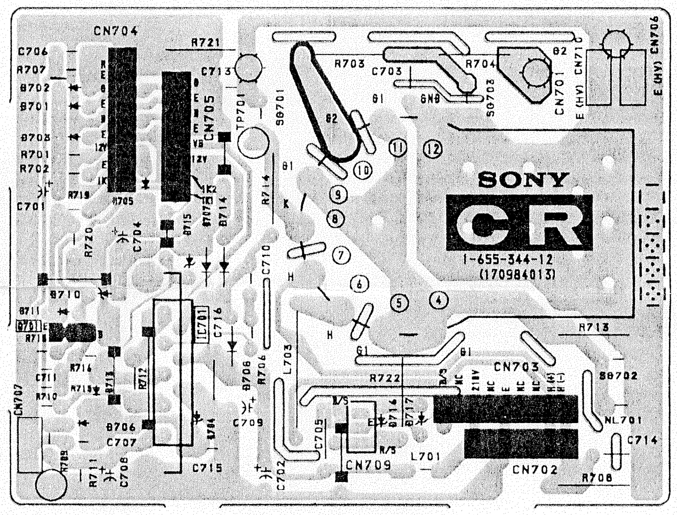
| DIODE | |
|---|---|
| D6001 | D-3 |
| D6002 | D-3 |
| D6003 | F-2 |
| D6005 | H-3 |
| D6007 | E-1 |
| D6008 | E-2 |
| D6009 | D-2 |
| D6012 | A-3 |
| D6013 | E-2 |
| D6014 | G-3 |
| D6017 | D-2 |
| D6018 | H-3 |
| D6025 | C-2 |
| D6032 | H-3 |
| D6033 | H-3 |
| D6035 | D-4 |
| D6036 | D-4 |
| D6037 | D-4 |
| D6038 | C-5 |
| D6039 | C-5 |
| D6040 | D-5 |
| D6041 | C-5 |
| D6042 | G-5 |
| D6043 | G-5 |
| D6045 | H-5 |
| D6046 | G-5 |
| D6047 | H-5 |
| D6048 | B-3 |
| D6049 | D-3 |
| D6050 | C-3 |
| D6051 | E-2 |
| D6052 | C-4 |
| D6053 | C-4 |
| **I C** | |
| IC6001 | E-2 |
| IC6004 | H-3 |
| IC6005 | D-3 |
| IC6006 | D-3 |
| IC6007 | H-5 |
| IC6008 | |
| **TRANSISTOR** | |
| Q6001 | H-3 |
| Q6002 | H-3 |
| Q6003 | G-3 |
| Q6005 | H-3 |
| Q6009 | H-3 |
| Q6010 | C-3 |
| Q6011 | B-3 |
| Q6012 | B-3 |
| Q6013 | B-4 |
| Q6014 | F-5 |
| Q6015 | F-5 |


CN701 1P WHT :MINI TO FOCUS BLOCK (E BOARD)
CN702 7P RED :S-MICRO TO E BOARD CN802
CN703 9P WHT :S-MICRO TO CG BOARD CN732
CN704 9P RED :S-MICRO TO B (2/3) BOARD CN201
CN705 8P WHT :S-MICRO TO CG BOARD CN734
TO FOCUS BLOCK (E BOARD)
CN708
CN709 3P RED :S-MICRO TO D BOARD CN1509
CN706 :FASTON
IC701 TDA6101Q VIDEO-AMP
200V
12V
CR
(R OUT)
B-SS443.<AEP>-CR.


G1 G2 G4
V901
PICTURE TUBE
07MAC2 (R)
HV. BLOCK
CRT BRAKCET

## CR [R OUT]

## – CR BOARD –

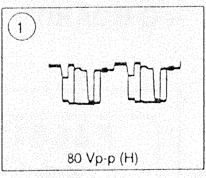

SONY
CR
1-655-344-12
(170984013)

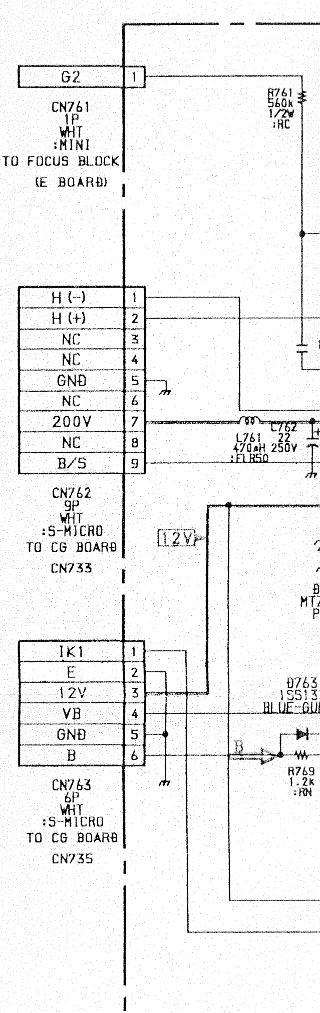
**CR BOARD**
**IC VOLTAGE LIST**

| | | |
|---|---|---|
| IC701 | 1 | 3.3 |
| | 2 | 12.5 |
| | 3 | 3.1 |
| | 4 | GND |
| | 5 | 10.0 |
| | 6 | 209.0 |
| | 7 | 169.0 |
| | 8 | 169.0 |
| | 9 | 168.0 |

All voltages are in V.

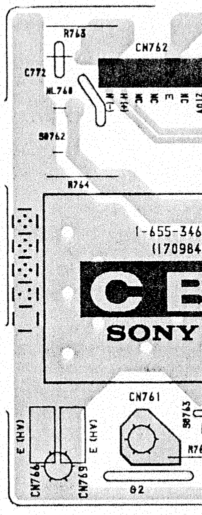
**• CR BOARD WAVEFORMS**

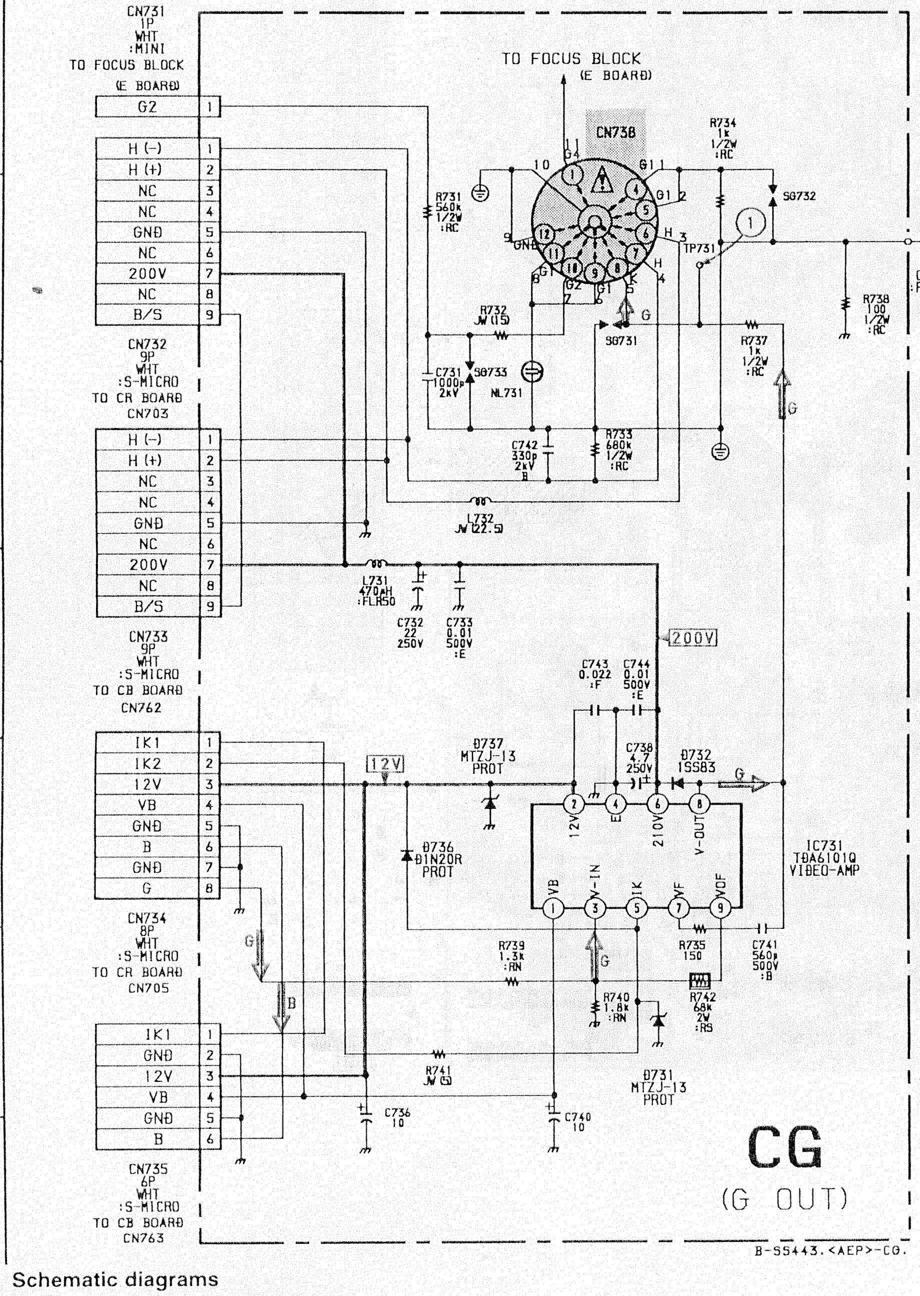


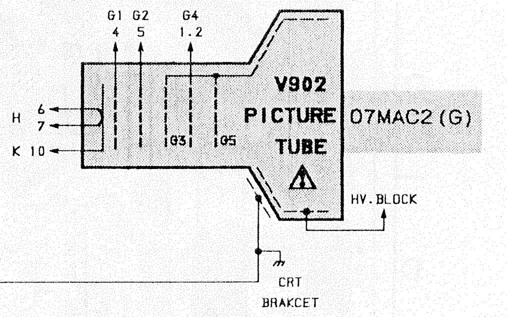

G2
CN761 1P WHT :MINI TO FOCUS BLOCK (E BOARD)
CN762 9P WHT :S-MICRO TO CG BOARD CN733
CN763 6P WHT :S-MICRO TO CG BOARD CN735
12V

## CB [B OUT]

## – CB BOARD –

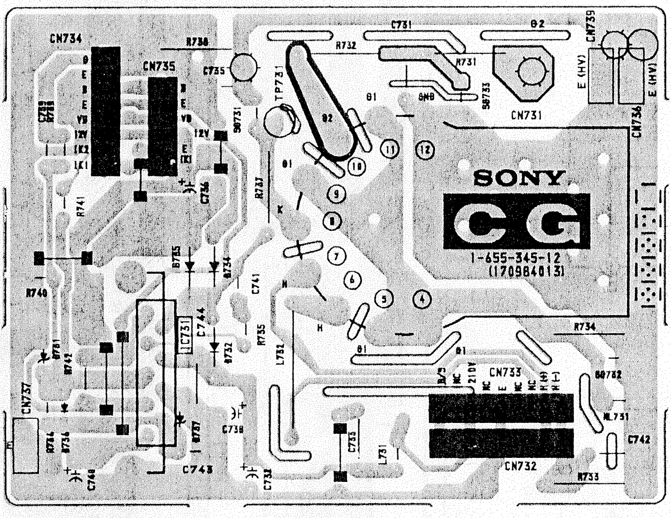



CN731 1P WHT :MINI TO FOCUS BLOCK (E BOARD)
CN732 9P WHT :S-MICRO TO CR BOARD CN703
CN733 9P WHT :S-MICRO TO CB BOARD CN762
CN734 8P WHT :S-MICRO TO CR BOARD CN705
CN735 6P WHT :S-MICRO TO CB BOARD CN763
TO FOCUS BLOCK (E BOARD)
CN738
CN736 :FASTON
IC731 TDA6101Q VIDEO-AMP
200V
12V
CG
(G OUT)
B-SS443.<AEP>-CG.


G1 G2 G4
V902
PICTURE TUBE
07MAC2 (G)
HV. BLOCK
CRT BRAKCET

## CG [G OUT]

## – CG BOARD –

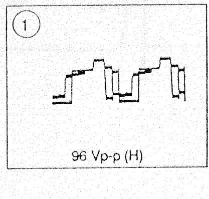

SONY
CG
1-655-345-12
(170984013)

**CG BOARD**
**IC VOLTAGE LIST**

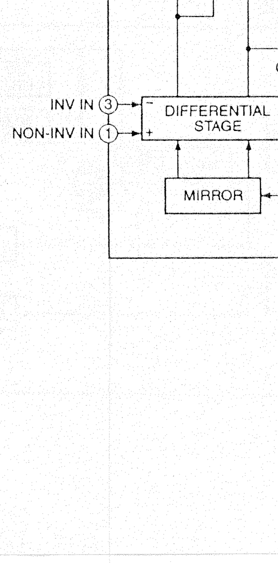
| | | |
|---|---|---|
| IC731 | 1 | 3.3 |
| | 2 | 12.5 |
| | 3 | 3.0 |
| | 4 | GND |
| | 5 | 10.0 |
| | 6 | 209.0 |
| | 7 | 162.0 |
| | 8 | 163.0 |
| | 9 | 161.0 |

All voltages are in V.

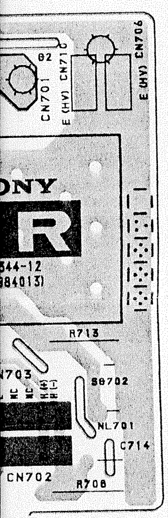
**• CG BOARD WAVEFORMS**



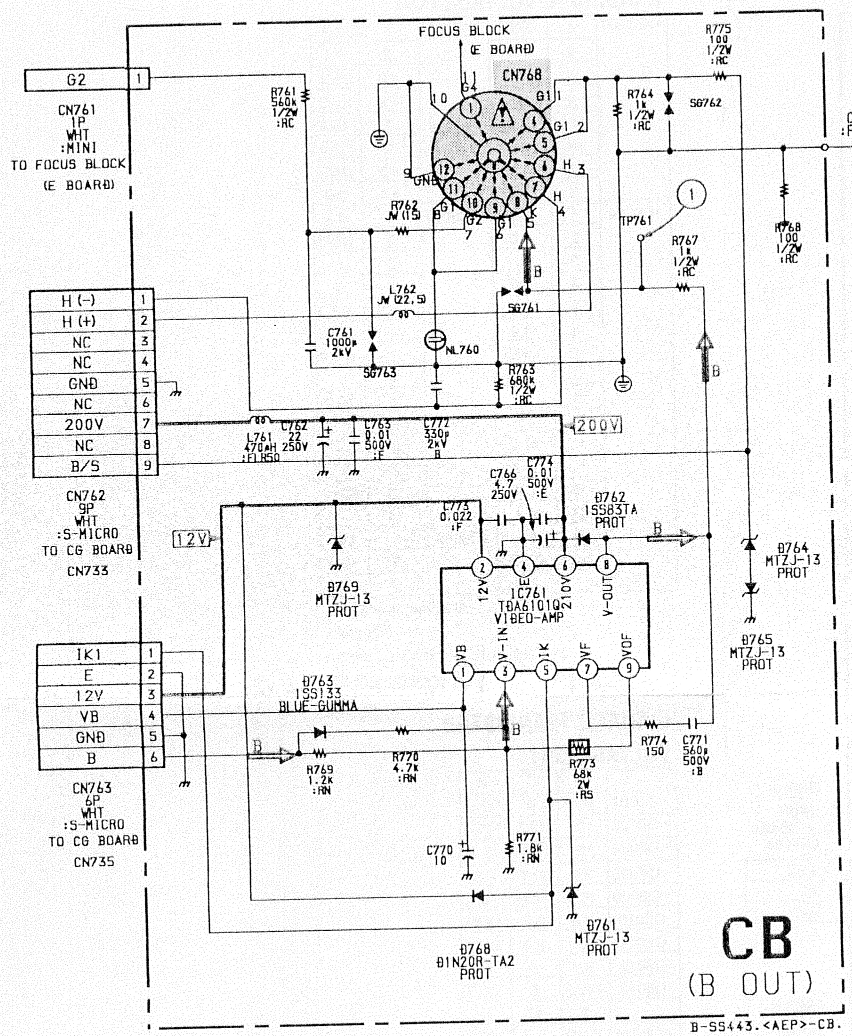
CR BOARD :
CG BOARD :
CB BOARD :

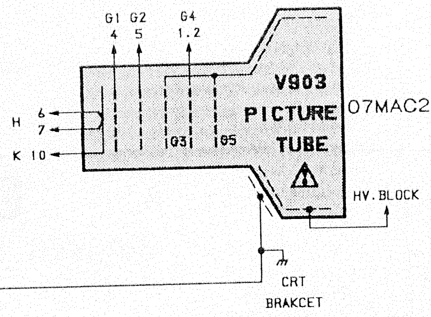

MIRROR
INV IN ③
NON-INV IN ①
DIFFERENTIAL STAGE
MIRROR

Schematic diagrams
G board | CR | CG | CB | HA
ZB | ZG | ZR | HB

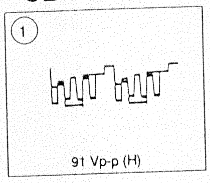

ONY
R
344-12
84013)
CN702

EFORMS


G2
CN761 1P WHT :MINI TO FOCUS BLOCK (E BOARD)
FOCUS BLOCK (E BOARD)
CN768
H (-)
H (+)
NC
GND
200V
B/S
CN762 9P WHT :S-MICRO TO CG BOARD CN733
12V
IK1
E
12V
VB
GND
B
CN763 6P WHT :S-MICRO TO CG BOARD CN735
IC761 TDA6101Q VIDEO-AMP
D769 MTZJ-13 PROT
D763 1SS133 BLUE-GUMMA
D762 1SS83TA PROT
D764 MTZJ-13 PROT
D765 MTZJ-13 PROT
D761 MTZJ-13 PROT
D768 D1N20R-TA2 PROT
CN766 :FASTON
TP761
200V
CB
(B OUT)
B-SS443.<AEP>-CB.


G1 G2 G4
4 5 1.2
H 6 7
K 10
V903 PICTURE TUBE
07MAC2 (B)
HV.BLOCK
CRT BRAKCET

## • CB BOARD WAVEFORMS



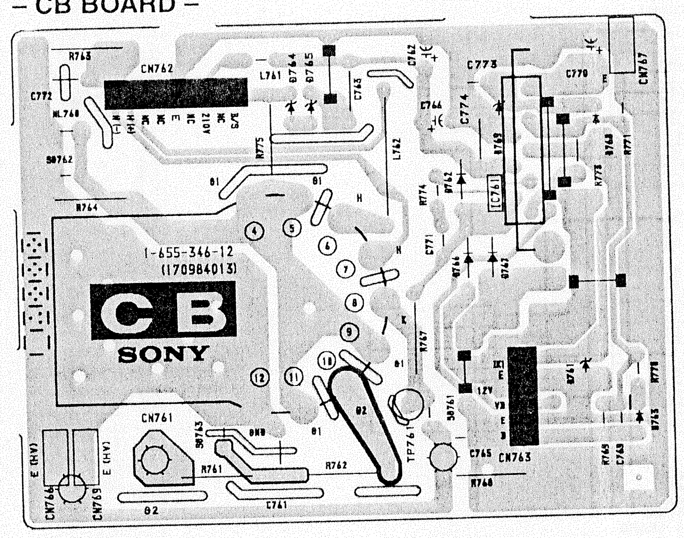
### CB BOARD IC VOLTAGE LIST

| | | |
|---|---|---|
| IC761 | 1 | 3.3 |
| | 2 | 12.5 |
| | 3 | 3.1 |
| | 4 | GND |
| | 5 | 10.0 |
| | 6 | 209.0 |
| | 7 | 166.0 |
| | 8 | 167.0 |
| | 9 | 164.0 |

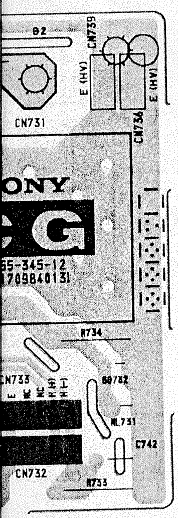
All voltages are in V.

## CB [B OUT]

### – CB BOARD –

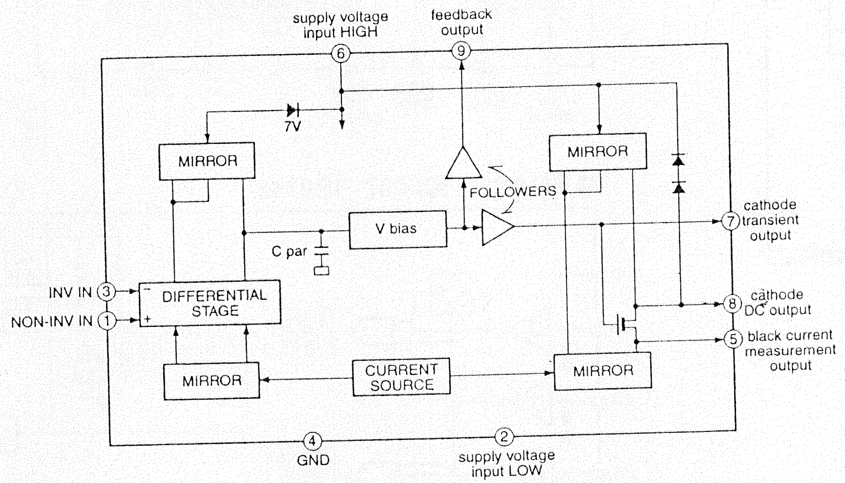

1-655-346-12 (170984013)
CB
SONY
CN762
CN761
CN763
CN767

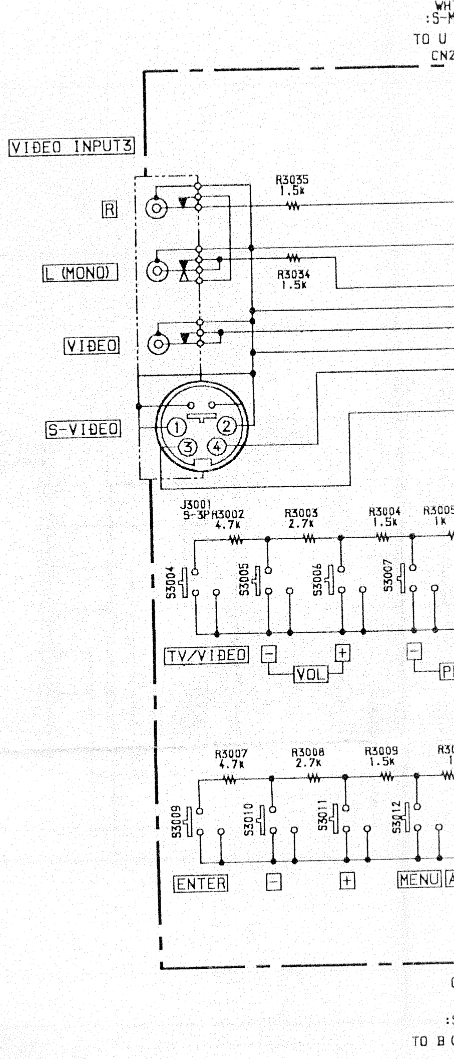
G)


ONY
G
55-345-12
1709840131
CN731
CN732

AVEFORMS

**CR BOARD : IC701 TDA6101Q**
**CG BOARD : IC731 TDA6101Q**
**CB BOARD : IC761 TDA6101Q**

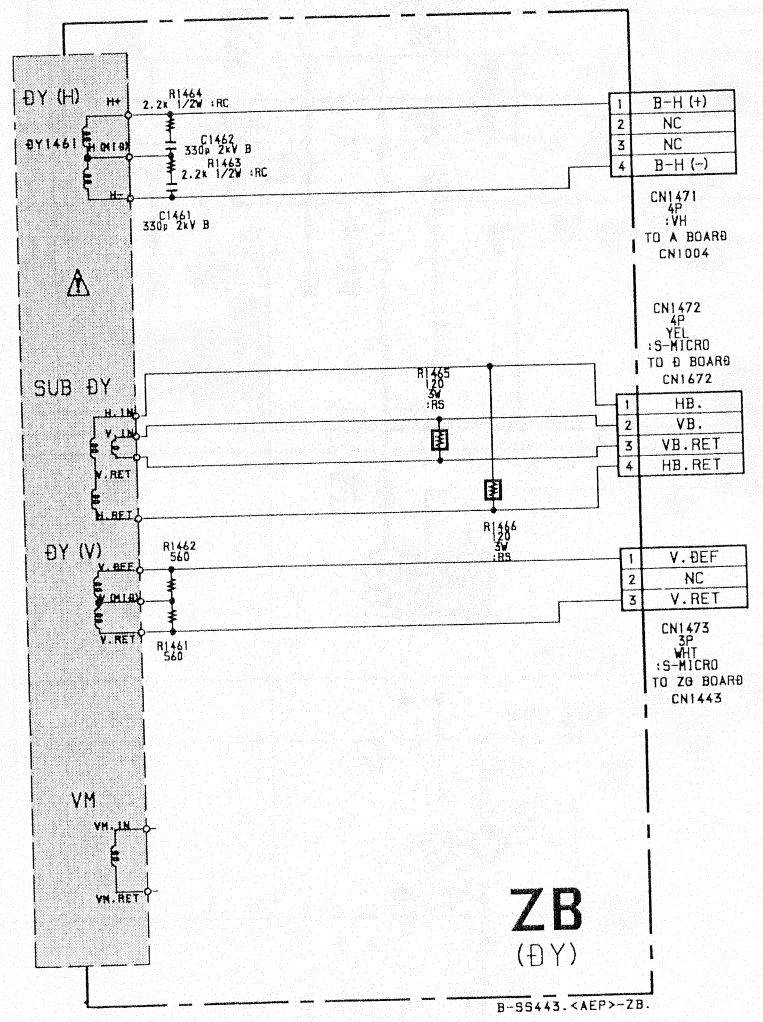

supply voltage input HIGH
feedback output
6
9
7V
MIRROR
MIRROR
FOLLOWERS
V bias
C par
INV IN 3
NON-INV IN 1
DIFFERENTIAL STAGE
7 cathode transient output
8 cathode DC output
5 black current measurement output
MIRROR
CURRENT SOURCE
MIRROR
4 GND
2 supply voltage input LOW

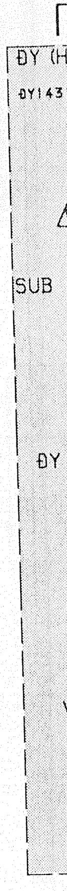

VIDEO INPUT3
R
L (MONO)
VIDEO
S-VIDEO
TV/VIDEO
VOL
ENTER
MENU

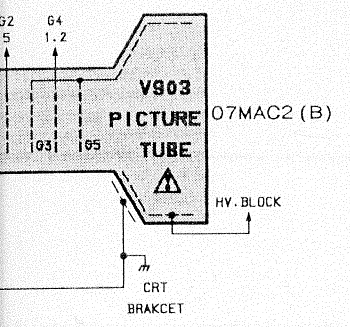
### HA BOARD IC VOLTAGE LIST

| | | |
|---|---|---|
| IC3001 | 1 | 5.2 |
| | 2 | 5.3 |
| | 3 | GND |

All voltages are in V.

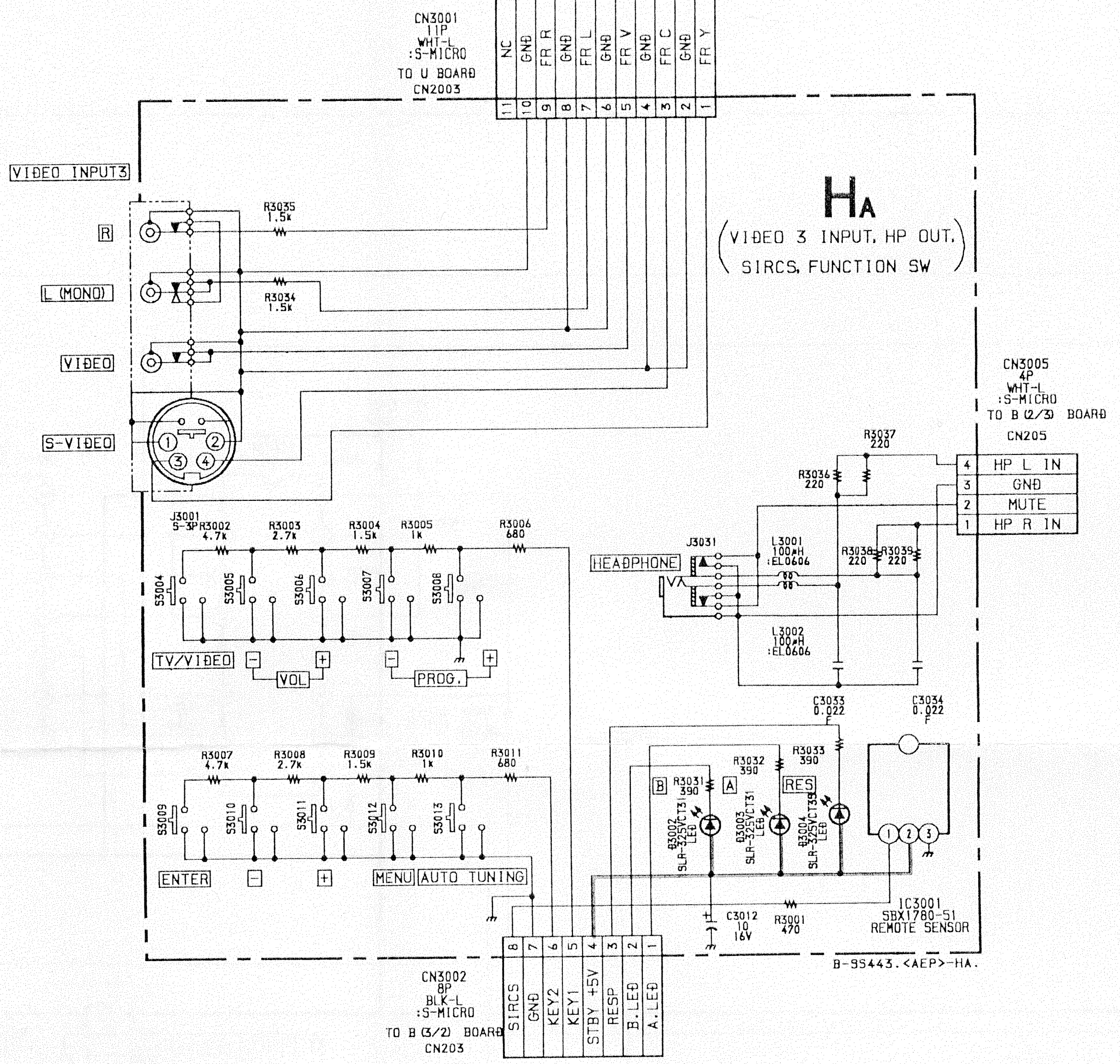

DY (H)
DY1461
SUB DY
DY (V)
VM
B-H (+)
NC
NC
B-H (-)
CN1471 4P :VH TO A BOARD CN1004
CN1472 4P YEL :S-MICRO TO D BOARD CN1672
HB.
VB.
VB.RET
HB.RET
V.DEF
NC
V.RET
CN1473 3P WHT :S-MICRO TO ZG BOARD CN1443
ZB
(DY)
B-SS443.<AEP>-ZB.





G2
G4
1.2
V903
PICTURE
TUBE
07MAC2 (B)
HV. BLOCK
CRT
BRAKCET

ORMS

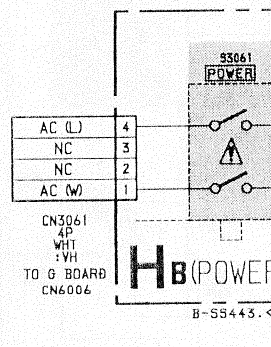


CN3001
11P
WHT-L
:S-MICRO
TO U BOARD
CN2003
NC
GND
FR R
GND
FR L
GND
FR V
GND
FR C
GND
FR Y
VIDEO INPUT3
R
L (MONO)
VIDEO
S-VIDEO
R3035
1.5k
R3034
1.5k
HA
(VIDEO 3 INPUT, HP OUT, SIRCS, FUNCTION SW)
CN3005
4P
WHT-L
:S-MICRO
TO B (2/3) BOARD
CN205
HP L IN
GND
MUTE
HP R IN
R3037
220
R3036
220
J3001
R3002
4.7k
R3003
2.7k
R3004
1.5k
R3005
1k
R3006
680
HEADPHONE
J3031
L3001
100μH
:EL0606
L3002
100μH
:EL0606
R3038
220
R3039
220
S3004
S3005
S3006
S3007
S3008
TV/VIDEO
VOL
PROG.
C3033
0.022
C3034
0.022
R3007
4.7k
R3008
2.7k
R3009
1.5k
R3010
1k
R3011
680
R3031
390
R3032
390
R3033
390
B
A
RES
D3002
D3003
D3004
S3009
S3010
S3011
S3012
S3013
ENTER
MENU
AUTO TUNING
C3012
10
16V
R3001
470
IC3001
SBX1780-51
REMOTE SENSOR
CN3002
8P
BLK-L
:S-MICRO
TO B (3/2) BOARD
CN203
SIRCS
GND
KEY2
KEY1
STBY +5V
RESP
B.LED
A.LED
B-SS443.<AEP>-HA.

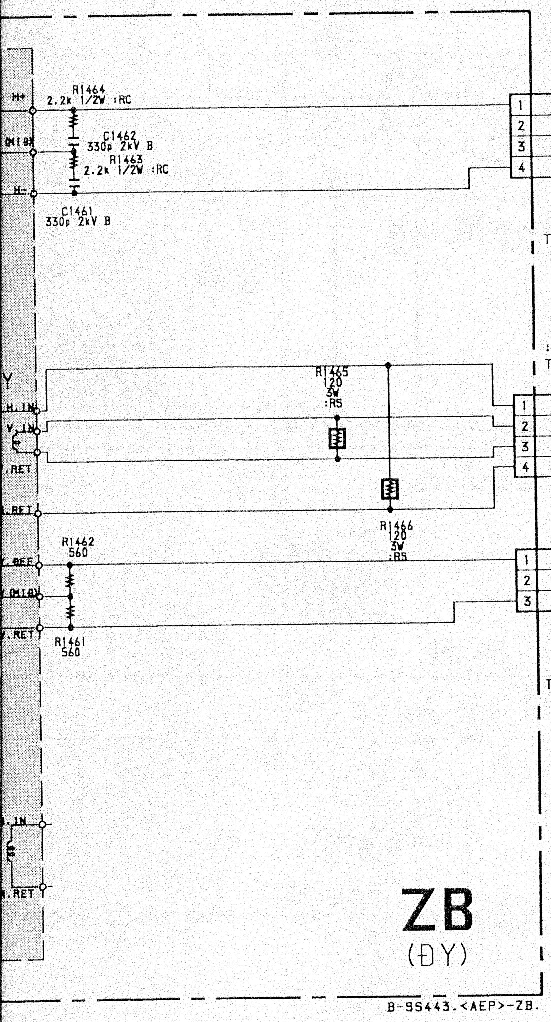
### HA BOARD IC VOLTAGE LIST

| | | |
|---|---|---|
| IC3001 | 1 | 5.2 |
| | 2 | 5.3 |
| | 3 | GND |

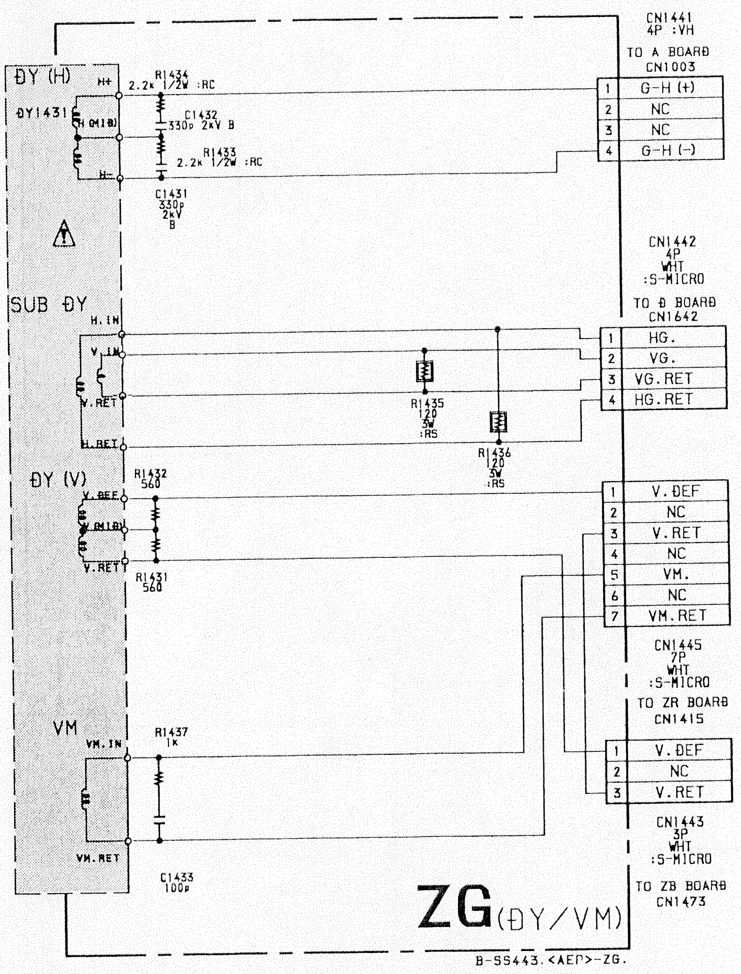
All voltages are in V.



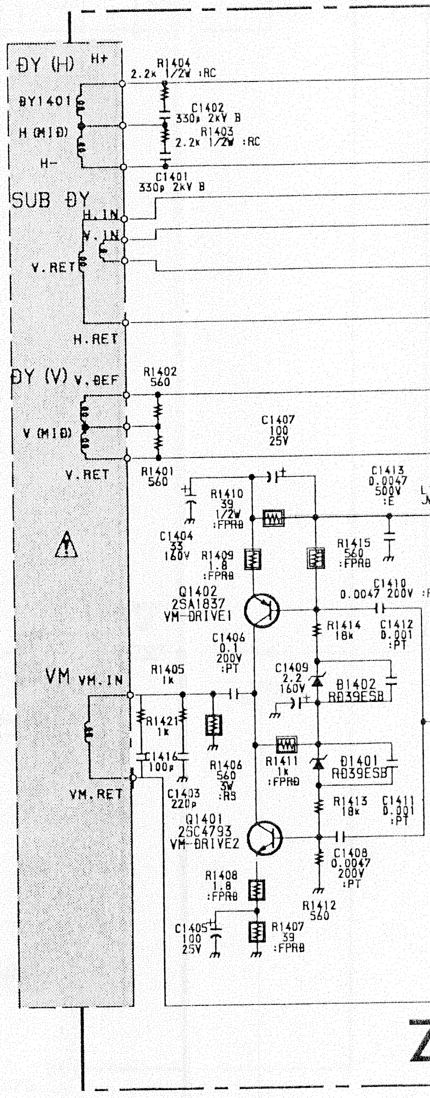
S3061
POWER
AC (L)
NC
NC
AC (W)
CN3061
4P
WHT
:VH
TO G BOARD
CN6006
HB (POWER
B-SS443.<



R1464
2.2k 1/2W :RC
C1462
330p 2kV B
R1463
2.2k 1/2W :RC
C1461
330p 2kV B
B-H (+)
NC
NC
B-H (-)
CN1471
4P
:VH
TO A BOARD
CN1004
CN1472
4P
YEL
:S-MICRO
TO D BOARD
CN1672
HB.
VB.
VB.RET
HB.RET
R1465
R1466
R1462
560
R1461
560
V.DEF
NC
V.RET
CN1473
3P
WHT
:S-MICRO
TO ZG BOARD
CN1443
ZB
(DY)
B-SS443.<AEP>-ZB.



DY (H)
DY1431
R1434
2.2k 1/2W :RC
C1432
330p 2kV B
R1433
2.2k 1/2W :RC
C1431
330p
2kV
B
CN1441
4P :VH
TO A BOARD
CN1003
G-H (+)
NC
NC
G-H (-)
SUB DY
CN1442
4P
WHT
:S-MICRO
TO D BOARD
CN1642
HG.
VG.
VG.RET
HG.RET
R1435
R1436
DY (V)
R1432
560
R1431
560
V.DEF
NC
V.RET
NC
VM.
NC
VM.RET
CN1445
7P
WHT
:S-MICRO
TO ZR BOARD
CN1415
VM
R1437
1k
V.DEF
NC
V.RET
CN1443
3P
WHT
:S-MICRO
TO ZB BOARD
CN1473
C1433
100p
ZG (DY/VM)
B-SS443.<AEP>-ZG.

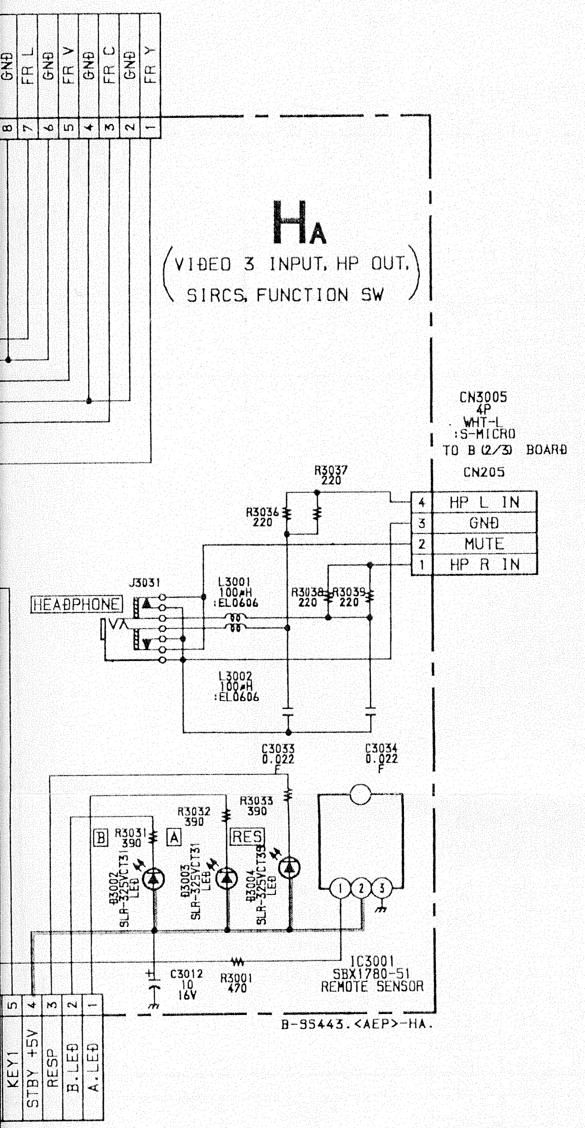


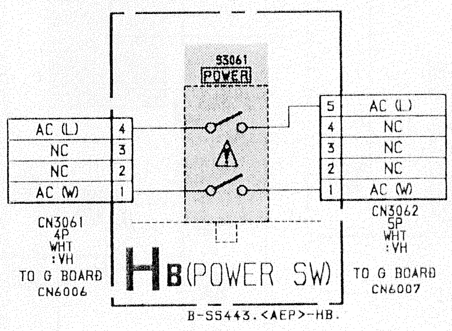
DY (H)
DY1401
R1404
2.2k 1/2W :RC
C1402
330p 2kV B
R1403
2.2k 1/2W :RC
C1401
330p 2kV B
SUB DY
H.RET
DY (V)
R1402
560
R1401
560
C1407
100
25V
R1410
R1409
R1415
C1413
C1404
Q1402
2SA1837
VM-DRIVE1
R1414
C1412
C1410
C1406
C1409
D1402
RD39ESB
VM
R1405
R1421
C1416
R1406
R1411
D1401
RD39ESB
C1403
Q1401
2SC4793
VM-DRIVE2
R1413
C1411
C1408
R1408
R1407
R1412
C1405
Z

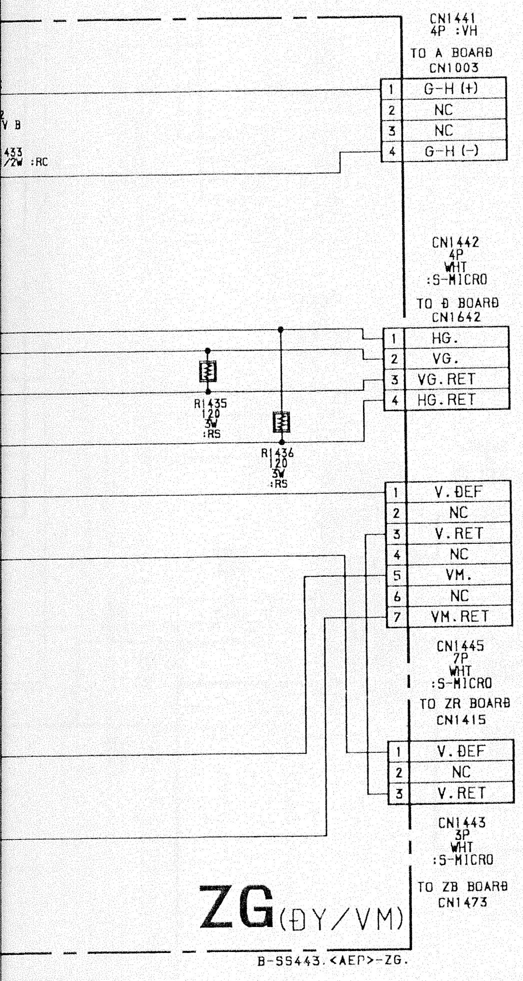
### ZR BOARD TRANSISTOR VOLTAGE LIST

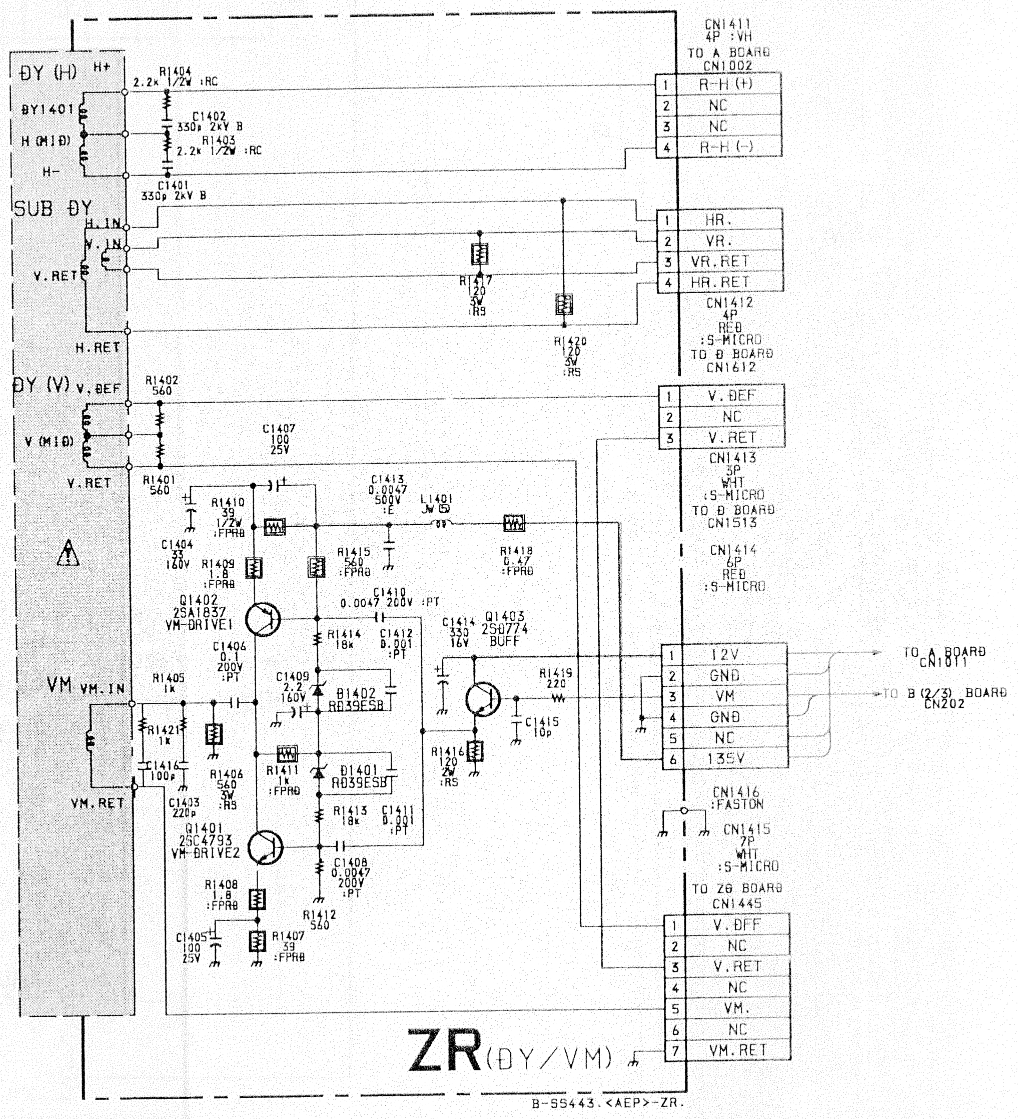
| | B | C | E |
|---|---|---|---|
| Q1401 | 1.0 | 71.6 | 0.4 |
| Q1402 | 140.5 | 71.6 | 141.1 |
| Q1403 | 4.3 | 12.7 | 3.7 |

All voltages are in V.


GND
FR L
GND
FR V
GND
FR C
GND
FR Y
8
7
6
5
4
3
2
1
HA
(VIDEO 3 INPUT, HP OUT, SIRCS, FUNCTION SW)
CN3005
4P
WHT-L
:S-MICRO
TO B (2/3) BOARD
CN205
R3037
220
R3036
220
4 HP L IN
3 GND
2 MUTE
1 HP R IN
J3031
HEADPHONE
L3001
100µH
:EL0606
R3038
220
R3039
220
L3002
100µH
:EL0606
C3033
0.022
F
C3034
0.022
F
R3032
390
R3033
390
B
R3031
390
A
RES
D3002
SLR-325VCT31
LED
D3003
SLR-325VCT31
LED
D3004
SLR-325VCT31
LED
C3012
10
16V
R3001
470
IC3001
SBX1780-51
REMOTE SENSOR
5
4
3
2
1
KEY1
STBY +5V
RESP
B.LED
A.LED
B-SS443.<AEP>-HA.


S3061
POWER
AC (L)
NC
NC
AC (W)
4
3
2
1
CN3061
4P
WHT
:VH
TO G BOARD
CN6006
5 AC (L)
4 NC
3 NC
2 NC
1 AC (W)
CN3062
5P
WHT
:VH
TO G BOARD
CN6007
HB (POWER SW)
B-SS443.<AEP>-HB.


CN1441
4P :VH
TO A BOARD
CN1003
1 G-H (+)
2 NC
3 NC
4 G-H (-)
433
/2W :RC
CN1442
4P
WHT
:S-MICRO
TO D BOARD
CN1642
1 HG.
2 VG.
3 VG.RET
4 HG.RET
R1435
120
3W
:RS
R1436
120
3W
:RS
1 V.DEF
2 NC
3 V.RET
4 NC
5 VM.
6 NC
7 VM.RET
CN1445
7P
WHT
:S-MICRO
TO ZR BOARD
CN1415
1 V.DEF
2 NC
3 V.RET
CN1443
3P
WHT
:S-MICRO
TO ZB BOARD
CN1473
ZG(DY/VM)
B-SS443.<AEP>-ZG.


DY (H)
H+
DY1401
H (MID)
H-
R1404
2.2k 1/2W :RC
C1402
330p 2kV B
R1403
2.2k 1/2W :RC
C1401
330p 2kV B
CN1411
4P :VH
TO A BOARD
CN1002
1 R-H (+)
2 NC
3 NC
4 R-H (-)
SUB DY
H.IN
V.IN
V.RET
H.RET
R1417
120
3W
:RS
R1420
120
3W
:RS
1 HR.
2 VR.
3 VR.RET
4 HR.RET
CN1412
4P
RED
:S-MICRO
TO D BOARD
CN1612
DY (V)
V.DEF
V (MID)
V.RET
R1402
560
R1401
560
C1407
100
25V
1 V.DEF
2 NC
3 V.RET
CN1413
3P
WHT
:S-MICRO
TO D BOARD
CN1513
R1410
39
1/2W
:FPRD
C1404
33
160V
R1409
1.8
:FPRD
C1413
0.0047
500V
:E
L1401
JW (5)
R1415
560
:FPRD
R1418
0.47
:FPRD
C1410
0.0047 200V :PT
Q1402
2SA1837
VM-DRIVE1
R1414
18k
C1412
0.001
:PT
C1414
330
16V
Q1403
2SD774
BUFF
CN1414
6P
RED
:S-MICRO
1 12V
2 GND
3 VM
4 GND
5 NC
6 135V
TO A BOARD
CN1011
TO B (2/3) BOARD
CN202
C1406
0.1
200V
:PT
VM
VM.IN
R1405
1k
C1409
2.2
160V
D1402
RD39ESB
R1419
220
C1415
10p
R1421
1k
C1416
100p
R1406
560
3W
:RS
R1411
1k
:FPRD
D1401
RD39ESB
R1416
120
2W
:RS
VM.RET
C1403
220p
Q1401
2SC4793
VM-DRIVE2
R1413
18k
C1411
0.001
:PT
C1408
0.0047
200V
:PT
CN1416
:FASTON
CN1415
7P
WHT
:S-MICRO
TO ZG BOARD
CN1445
R1408
1.8
:FPRD
C1405
100
25V
R1407
39
:FPRD
R1412
560
1 V.DFF
2 NC
3 V.RET
4 NC
5 VM.
6 NC
7 VM.RET
ZR(DY/VM)
B-SS443.<AEP>-ZR.

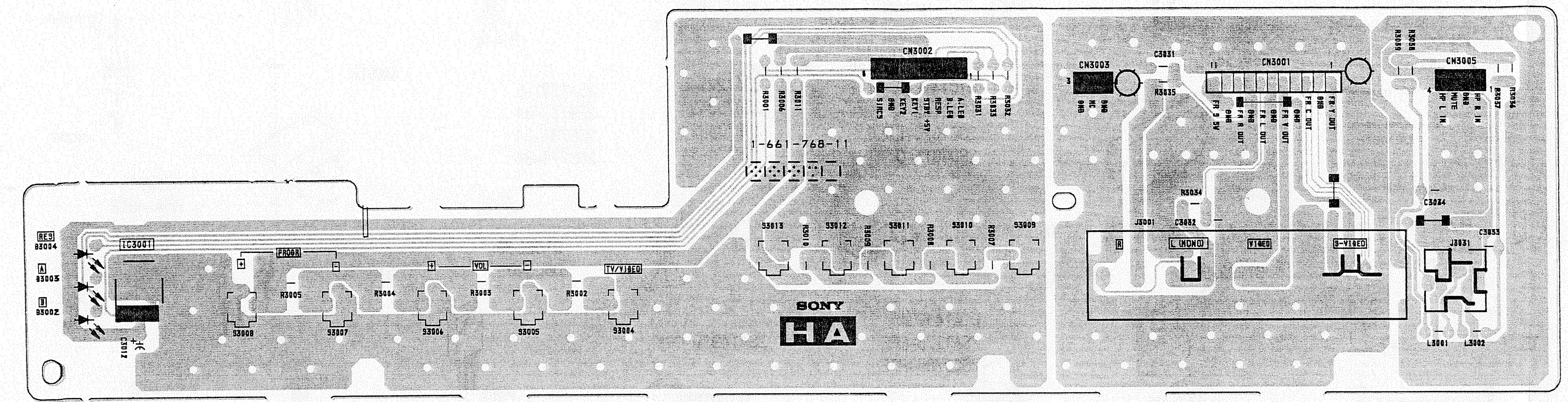
## ZR BOARD TRANSISTOR VOLTAGE LIST

| | B | C | E |
|---|---|---|---|
| Q1401 | 1.0 | 71.6 | 0.4 |
| Q1402 | 140.5 | 71.6 | 141.1 |
| Q1403 | 4.3 | 12.7 | 3.7 |

All voltages are in V.

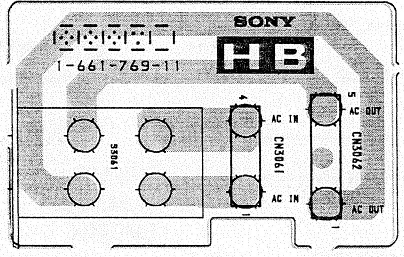
**HA** [ VIDEO 3 INPUT, HP OUT, SIRCS, FUNCTION SW ]

**– HA BOARD –**


CN3002
1-661-768-11
IC3001
S3013
S3012
S3011
S3010
S3009
S3008
S3007
S3006
S3005
S3004
VOL
TV/VIDEO
SONY
HA
CN3003
CN3001
CN3005
J3001
J3031
L(MONO)
VIDEO
S-VIDEO
L3001
L3002

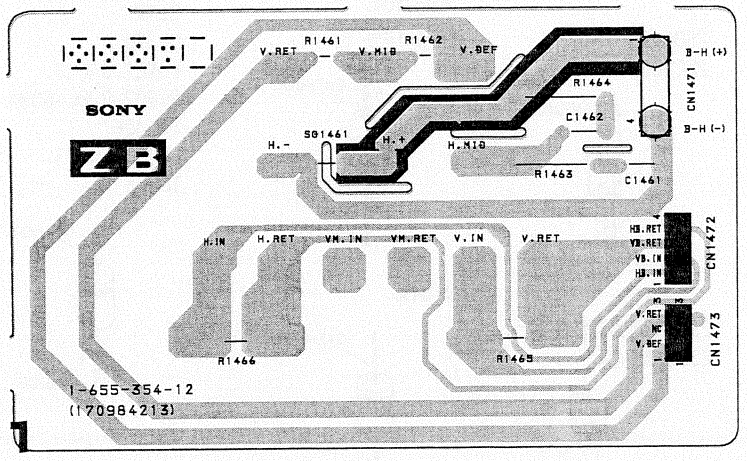
**HB** [POWER SW]

**– HB BOARD –**


SONY
HB
1-661-769-11
CN3561
CN3562
AC IN
AC OUT

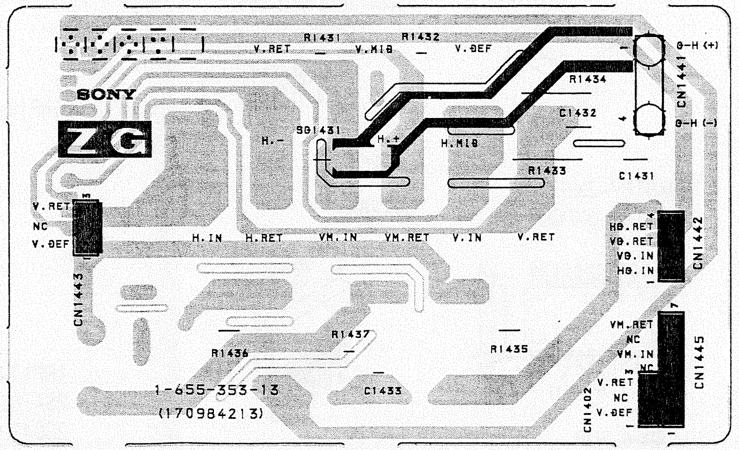
**ZB** [DY]

**– ZB BOARD –**


SONY
ZB
R1461
R1462
R1463
R1464
R1465
R1466
C1461
C1462
SG1461
CN1471
CN1472
CN1473
B-H (+)
B-H (–)
1-655-354-12
(170984213)

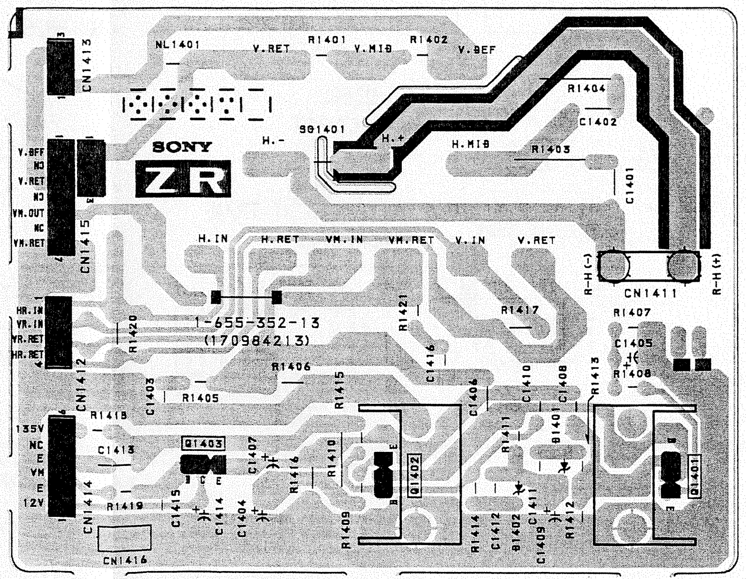
**ZG** [DY/VM]

**– ZG BOARD –**


SONY
ZG
R1431
R1432
R1433
R1434
R1435
R1436
R1437
C1431
C1432
C1433
SG1431
CN1441
CN1442
CN1443
CN1445
G-H (+)
G-H (–)
1-655-353-13
(170984213)

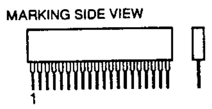
**ZR** [DY/VM]

**– ZR BOARD –**


SONY
ZR
NL1401
R1401
R1402
R1403
R1404
C1401
C1402
SG1401
CN1411
CN1412
CN1413
CN1414
CN1415
CN1416
R-H (+)
R-H (–)
1-655-352-13
(170984213)
Q1401
Q1402
Q1403

## 6-5. SEMICONDUCTORS

CX20125


MARKING SIDE VIEW
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8pin SIP

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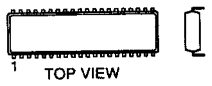

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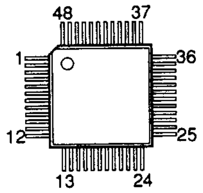
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TOP VIEW

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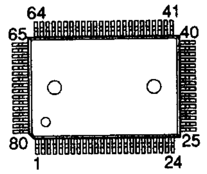
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TOP VIEW

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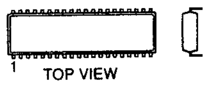

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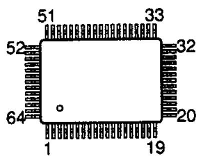
51
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TOP VIEW

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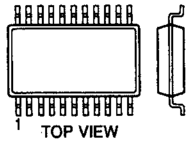

16pin SOP

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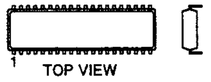

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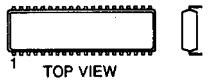

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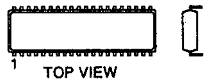

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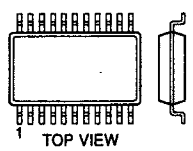

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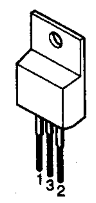

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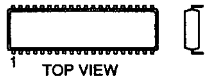

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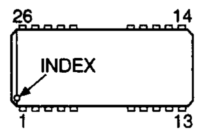
26
14
INDEX
1
13

TOP VIEW

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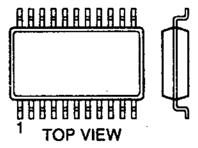

14pin SOP

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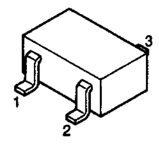

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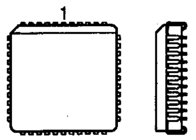

TOP VIEW

44pin QFJ

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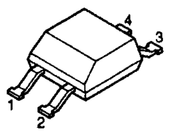

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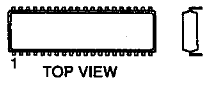

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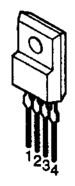

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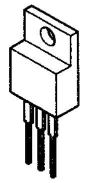

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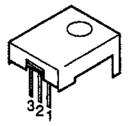

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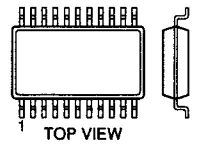

28pin SOP

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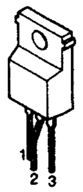

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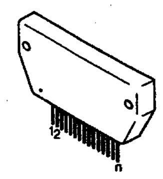
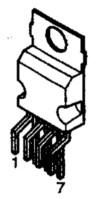


MARKING SIDE VIEW

STV9379



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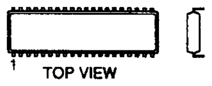

28pin DIP

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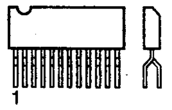
MARKING SIDE VIEW



9pin ZIP

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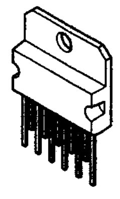

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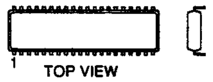

32pin DIP

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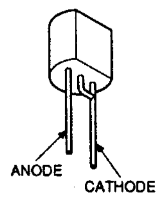
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CATHODE

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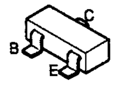

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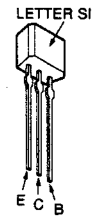
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E
C
B

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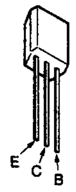

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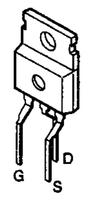

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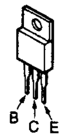

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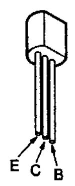

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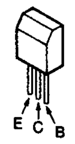

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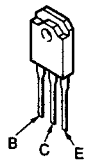

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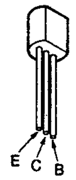

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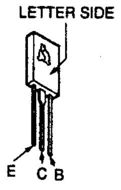
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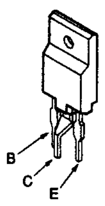

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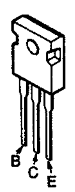

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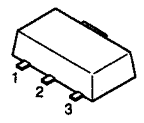

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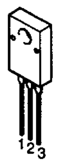

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RD20ES-B1
RD24ES-B
RD3.6ES-B1
RD3.9ES-B2
RD30ESB2
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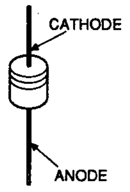
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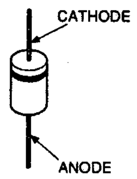
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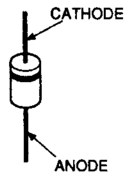
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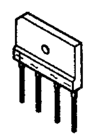

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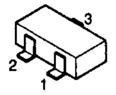

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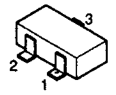

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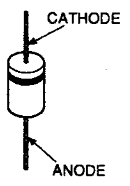
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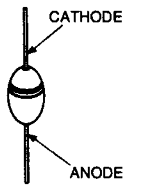
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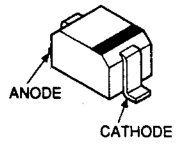
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CATHODE

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MA3091
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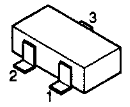
RD3.9M-B1
RD5.1M-B2
RD7.5M-B2



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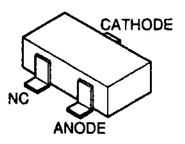
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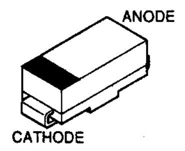
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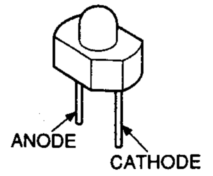
CATHODE

SLR-325VCT31


ANODE
CATHODE

# SECTION 7
# EXPLODED VIEWS

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

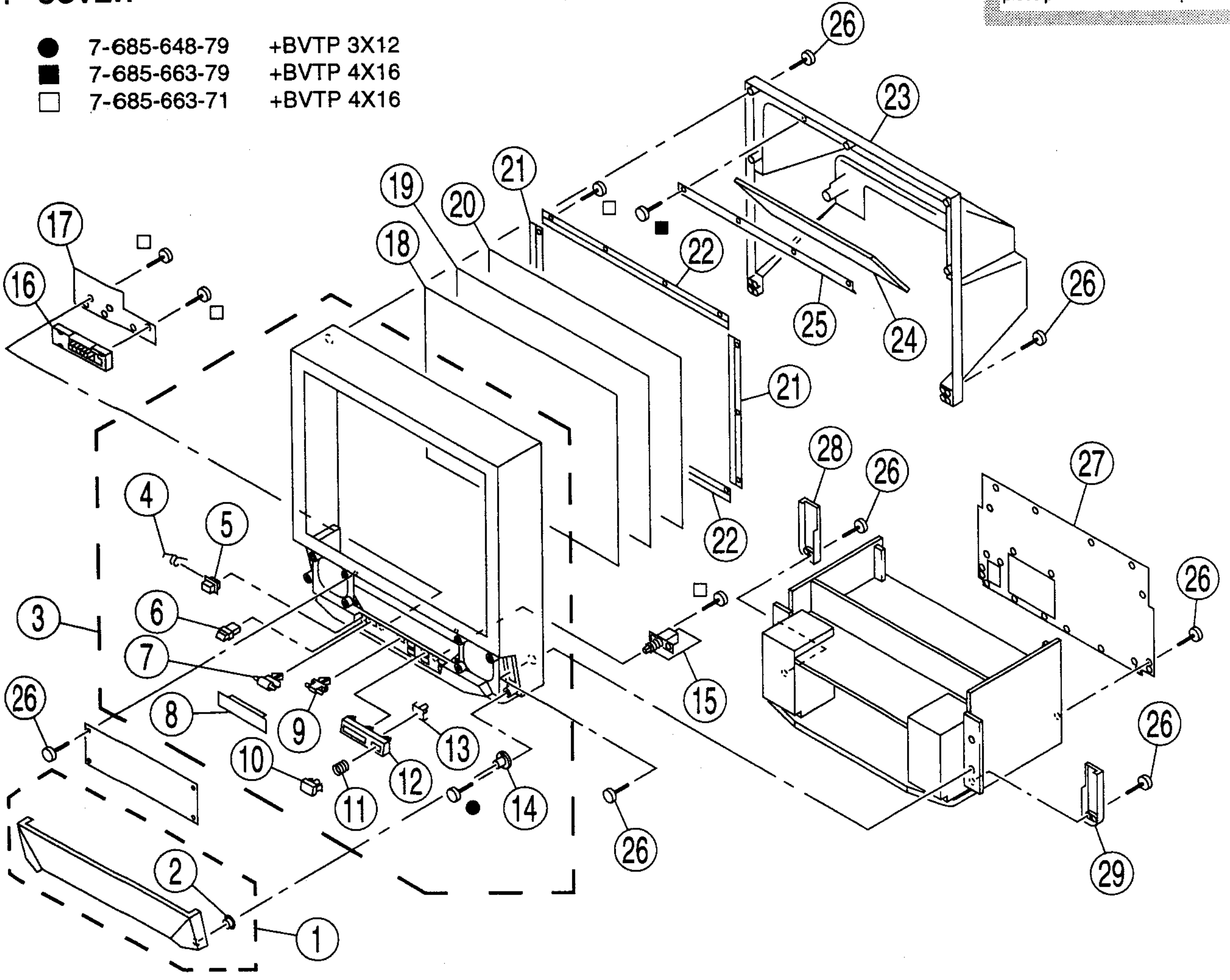
Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

## 7-1. COVER

● 7-685-648-79 +BVTP 3X12
■ 7-685-663-79 +BVTP 4X16
☐ 7-685-663-71 +BVTP 4X16



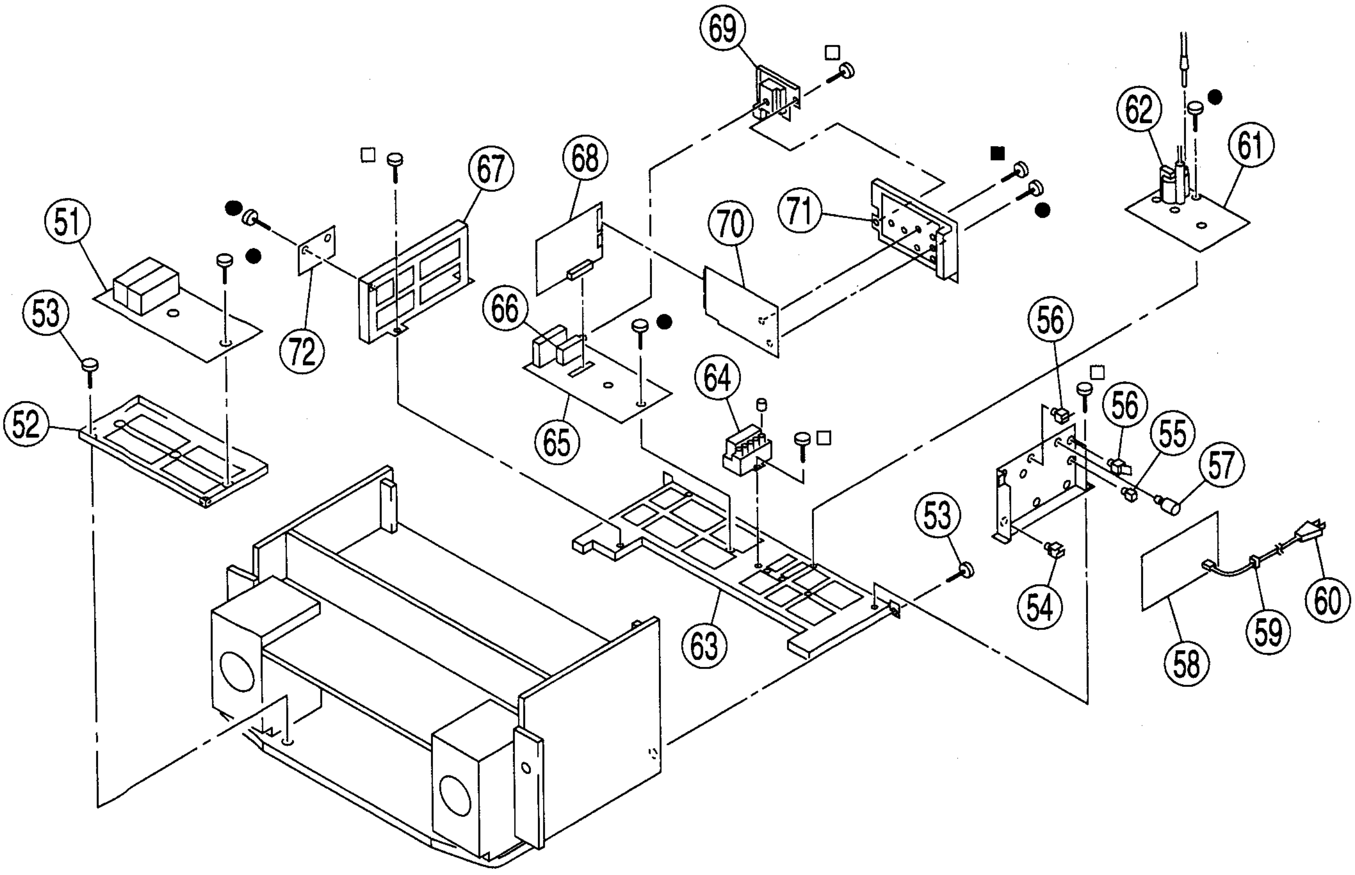
| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 1 | X-4033-789-1 | GRILLE ASSY, SPEAKER | 2 |
| 2 | 4-838-438-00 | LATCH | |
| 3 | X-4033-791-1 | BEZNET ASSY | 4-14 |
| 4 | *4-054-810-01 | SPRING, DOOR | |
| 5 | *4-049-886-01 | HOLDER, SPRING | |
| 6 | 4-042-192-01 | CATCHER, PUSH | |
| 7 | 4-045-250-11 | DAMPER | |
| 8 | 4-054-805-01 | DOOR | |
| 9 | 3-703-035-11 | SHAFT, LID | |
| 10 | 4-054-807-01 | BUTTON, POWER | |
| 11 | 4-202-964-01 | SPRING | |
| 12 | 4-054-808-01 | PLATE, ORNAMENTAL | |
| 13 | *4-054-809-01 | GUIDE, LED | |
| 14 | 4-843-806-00 | STRIKE | |
| 15 | *A-1372-217-A | HB BOARD, COMPLETE | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 16 | 4-054-812-01 | BUTTON, MULTI | |
| 17 | *A-1372-216-A | HA BOARD, COMPLETE | |
| 18 | 4-053-812-11 | SCREEN (41), CONTRAST | |
| 19 | 4-053-774-11 | PLATE (L), DUFFUSION | |
| 20 | 4-047-943-31 | PLATE (F), DIFFUSION | |
| 21 | *4-052-689-11 | HOLDER (S), SCREEN | |
| 22 | *4-052-689-21 | HOLDER (S), SCREEN | |
| 23 | 4-054-836-01 | COVER, MIRROR | |
| 24 | 4-054-835-01 | MIRROR (41), REFLECTION | |
| 25 | *4-054-837-01 | HOLDER, MIRROR | |
| 26 | 4-378-522-31 | SCREW, TAPPING, HEXAGON HEAD | |
| 27 | *4-054-796-01 | PLATE, REAR | |
| 28 | 4-054-799-01 | COVER (L), SIDE | |
| 29 | 4-054-797-01 | COVER (R), SIDE | |

| | |
|---|---|
| The componants identified by shading and mark ⚠ are critical for safety.<br>Replace only with part number specified. | Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.<br>Ne les remplacer que par une piece portant le numero specifie. |

## 7-2. CHASSIS

| | | |
|---|---|---|
| ● | 7-685-648-79 | +BVTP 3X12 |
| ■ | 7-685-663-79 | +BVTP 4X16 |
| □ | 7-685-663-71 | +BVTP 4X16 |



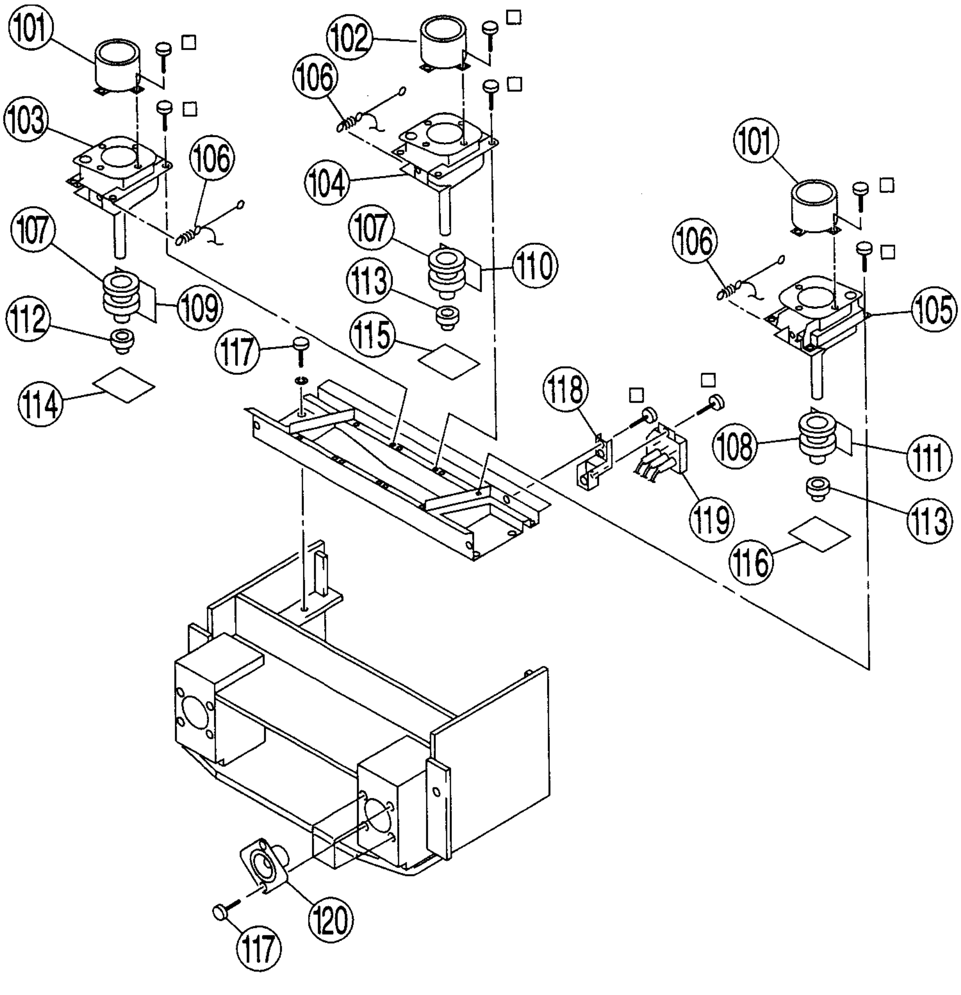
| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 51 | * A-1642-191-A | D BOARD, COMPLETE ASSY | |
| 52 | * 4-054-834-01 | BRACKET (D) | |
| 53 | 4-378-522-31 | SCREW, TAPPING, HEXAGON HEAD | |
| 54 | * 3-659-682-11 | HOLDER, PC BOARD | |
| 55 | * 4-382-848-01 | HOLDER, PCB | |
| 56 | * 3-703-141-00 | HOLDER, PCB | |
| 57 | * 3-687-542-41 | SPACER, PC BOARD SPACE | |
| 58 | * A-1637-006-A | G BOARD, COMPLETE | |
| 59 | 4-388-328-01 | GROMMET, AC CORD | |
| 60 | ⚠ 1-690-270-21 | CORD, POWER (WITH CONNECTOR) | (KP-41S3K) |
| | ⚠ 1-765-286-11 | CORD, POWER (KP-41S3) | |
| | ⚠ 1-776-860-11 | POWER CORD, FILTER (UK) (KP-41S3U) | |
| 61 | * A-1642-192-A | E BOARD, COMPLETE | |
| 62 | ⚠ 1-453-189-11 | TRANSFORMER ASSY, FLYBACK | NX-2631//A4S |
| 63 | * 4-047-949-12 | BRACKET, MAIN PC BOARD | |
| 64 | ⚠ 8-598-955-11 | BLOCK ASSY, HIGH-VOLTAGE | |
| 65 | * A-1632-472-A | A BOARD, COMPLETE | |
| 66 | 1-693-185-11 | TUNER UV916H | |
| 67 | * 4-054-833-01 | BRACKET (B) | |
| 68 | * A-1621-060-A | B BOARD, COMPLETE (KP-41S3K) | |
| | * A-1621-059-A | B BOARD, COMPLETE (KP-41S3/41S3U) | |
| 69 | 4-054-841-01 | TERMINAL BOARD (B) (AEP) | |
| 70 | * A-1647-003-A | U BOARD, COMPLETE | |
| 71 | 4-054-842-01 | TERMINAL BOARD (A) (AEP) | |
| 72 | * A-1620-082-A | B2 BOARD, COMPLETE (French only) | |

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ! sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

## 7-3. PICTURE TUBE

☐ 7-685-663-71 +BVTP 4X16



| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| 101 | 4-034-057-01 | LENS (LINNIT) | |
| 102 | 4-034-057-11 | LENS (LINNIT) | |
| 103 | ⚠ 8-733-496-05 | PICTURE TUBE 07MAC2 (R) | |
| 104 | ⚠ 8-733-494-05 | PICTURE TUBE 07MAC2 (G) | |
| 105 | ⚠ 8-733-495-05 | PICTURE TUBE 07MAC2 (B) | |
| 106 | 4-048-142-11 | SPRING, EXTENSION | |
| 107 | ⚠ 8-451-463-11 | DEFLECTION YOKE Y829PA2N | |
| 108 | ⚠ 8-451-463-21 | DEFLECTION YOKE Y829PA2N2 | |
| 109 | * A-1390-594-A | ZR BOARD, COMPLETE | |
| 110 | * A-1390-595-A | ZG BOARD, COMPLETE | |
| 111 | * A-1390-596-A | ZB BOARD, COMPLETE | |
| 112 | ⚠ 1-452-790-21 | NECK ASSY | |
| 113 | ⚠ 1-452-790-11 | NECK ASSY | |
| 114 | * A-1331-532-A | CR BOARD, COMPLETE | |
| 115 | * A-1331-533-A | CG BOARD, COMPLETE | |
| 116 | * A-1331-534-A | CB BOARD, COMPLETE | |
| 117 | 4-378-522-31 | SCREW, TAPPING, HEXAGON HEAD | |
| 118 | * 4-054-825-01 | BRACKET, FOCUS PACK | |
| 119 | ⚠ 1-223-925-11 | RESISTOR ASSY (HIGH-VOLTAGE) | |
| 120 | 1-505-426-11 | SPEAKER | |

# SECTION 8
# ELECTRICAL PARTS LIST

**CR** **CG**

NOTE:

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

- CAPACITORS
  PF : μμ F
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | * A-1331-532-A | CR BOARD, COMPLETE | | | | |

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<CAPACITOR>

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C701 | 1-104-664-11 | ELECT | 47MF | 20% | 25V | |
| C702 | 1-107-662-11 | ELECT | 22MF | 20% | 250V | |
| C703 | 1-161-754-00 | CERAMIC | 0.001MF | 10% | 2KV | |
| C704 | 1-126-768-11 | ELECT | 2200MF | 20% | 16V | |
| C705 | 1-102-050-00 | CERAMIC | 0.01MF | | 500V | |
| C707 | 1-102-129-00 | CERAMIC | 0.01MF | 10% | 50V | |
| C708 | 1-104-664-11 | ELECT | 47MF | 20% | 25V | |
| C709 | 1-107-651-11 | ELECT | 4.7MF | 20% | 250V | |
| C710 | 1-102-157-00 | CERAMIC | 560PF | 10% | 500V | |
| C714 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV | |
| C715 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | |
| C716 | 1-102-050-00 | CERAMIC | 0.01MF | | 500V | |

<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN701 | * 1-508-784-00 | PIN, CONNECTOR (5mm PITCH) 1P |
| CN702 | * 1-564-510-11 | PLUG, CONNECTOR 7P |
| CN703 | * 1-564-512-11 | PLUG, CONNECTOR 9P |
| CN704 | * 1-564-512-11 | PLUG, CONNECTOR 9P |
| CN705 | * 1-564-511-11 | PLUG, CONNECTOR 8P |
| CN706 | 1-695-915-11 | TAB (CONTACT) |
| CN708 | ⚠ 1-251-179-11 | SOCKET, PICTURE TUBE |
| CN709 | * 1-564-506-11 | PLUG, CONNECTOR 3P |

<DIODE>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| D701 | 8-719-911-19 | DIODE 1SS119-25 |
| D702 | 8-719-911-19 | DIODE 1SS119-25 |
| D703 | 8-719-911-19 | DIODE 1SS119-25 |
| D704 | 8-719-110-36 | DIODE RD13ESB2 |
| D705 | 8-719-210-21 | DIODE 11EQS04 |
| D706 | 8-719-911-19 | DIODE 1SS119-25 |
| D707 | 8-719-110-36 | DIODE RD13ESB2 |
| D708 | 8-719-901-83 | DIODE 1SS83 |
| D713 | 8-719-510-48 | DIODE D1N20R |
| D716 | 8-719-110-36 | DIODE RD13ESB2 |
| D717 | 8-719-110-36 | DIODE RD13ESB2 |

<IC>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| IC701 | 8-759-346-42 | IC TDA6101Q/N3 |

<COIL>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| L701 | 1-408-429-00 | INDUCTOR 470UH |

<NEON LAMP>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| NL701 | 1-519-108-99 | LAMP, NEON |

<RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R701 | 1-215-411-00 | METAL | 390 | 1% | 1/4W | |
| R702 | 1-215-414-00 | METAL | 510 | 1% | 1/4W | |
| R704 | 1-202-847-00 | SOLID | 560K | 20% | 1/2W | |
| R706 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | |
| R707 | 1-215-426-00 | METAL | 1.6K | 1% | 1/4W | |
| R708 | 1-202-883-11 | SOLID | 680K | 20% | 1/2W | |
| R709 | 1-215-436-00 | METAL | 4.3K | 1% | 1/4W | |
| R710 | 1-215-427-00 | METAL | 1.8K | 1% | 1/4W | |
| R711 | 1-215-427-00 | METAL | 1.8K | 1% | 1/4W | |
| R712 | 1-215-903-11 | METAL OXIDE | 68K | 5% | 2W | F |
| R713 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R714 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R719 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R721 | 1-202-549-00 | SOLID | 100 | 20% | 1/2W | |
| R722 | 1-202-549-00 | SOLID | 100 | 20% | 1/2W | |

<SPARK GAP>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| SG701 | 1-519-422-11 | GAP, SPARK |
| SG702 | 1-519-422-11 | GAP, SPARK |
| SG703 | 1-519-422-11 | GAP, SPARK |

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| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| | * A-1331-533-A | CG BOARD, COMPLETE |

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<CAPACITOR>

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C731 | 1-161-754-00 | CERAMIC | 0.001MF | 10% | 2KV | |
| C732 | 1-107-662-11 | ELECT | 22MF | 20% | 250V | |
| C733 | 1-102-050-00 | CERAMIC | 0.01MF | | 500V | |
| C736 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | |
| C738 | 1-107-651-11 | ELECT | 4.7MF | 20% | 250V | |
| C740 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | |
| C741 | 1-102-157-00 | CERAMIC | 560PF | 10% | 500V | |
| C742 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV | |
| C743 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | |
| C744 | 1-102-050-00 | CERAMIC | 0.01MF | | 500V | |

<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN731 | * 1-508-784-00 | PIN, CONNECTOR (5mm PITCH) 1P |
| CN732 | * 1-564-512-11 | PLUG, CONNECTOR 9P |
| CN733 | * 1-564-512-11 | PLUG, CONNECTOR 9P |
| CN734 | 1-564-511-11 | PLUG, CONNECTOR 8P |
| CN735 | * 1-564-509-11 | PLUG, CONNECTOR 6P |
| CN736 | 1-695-915-11 | TAB (CONTACT) |
| CN738 | ⚠ 1-251-179-11 | SOCKET, PICTURE TUBE |

<DIODE>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| D731 | 8-719-110-36 | DIODE RD13ESB2 |

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| D732 | 8-719-901-83 | DIODE 1SS83 | | | | |
| D736 | 8-719-510-48 | DIODE D1N20R | | | | |
| D737 | 8-719-110-36 | DIODE RD13ESB2 | | | | |
| | | <IC> | | | | |
| IC731 | 8-759-346-42 | IC TDA6101Q/N3 | | | | |
| | | <COIL> | | | | |
| L731 | 1-408-429-00 | INDUCTOR 470UH | | | | |
| | | <NEON LAMP> | | | | |
| NL731 | 1-519-108-99 | LAMP, NEON | | | | |
| | | <RESISTOR> | | | | |
| R731 | 1-202-847-00 | SOLID | 560K | 20% | 1/2W | |
| R733 | 1-202-883-11 | SOLID | 680K | 20% | 1/2W | |
| R734 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R735 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | |
| R737 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R738 | 1-202-549-00 | SOLID | 100 | 20% | 1/2W | |
| R739 | 1-215-424-00 | METAL | 1.3K | 1% | 1/4W | |
| R740 | 1-215-427-00 | METAL | 1.8K | 1% | 1/4W | |
| R742 | 1-215-903-11 | METAL OXIDE | 68K | 5% | 2W | F |
| | | <SPARK GAP> | | | | |
| SG731 | 1-519-422-11 | GAP, SPARK | | | | |
| SG732 | 1-519-422-11 | GAP, SPARK | | | | |
| SG733 | 1-519-422-11 | GAP, SPARK | | | | |

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* A-1331-534-A CB BOARD, COMPLETE
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| | | | | | | |
|---|---|---|---|---|---|---|
| | | <CAPACITOR> | | | | |
| C761 | 1-161-754-00 | CERAMIC | 0.001MF | 10% | 2KV | |
| C762 | 1-107-662-11 | ELECT | 22MF | 20% | 250V | |
| C763 | 1-102-050-00 | CERAMIC | 0.01MF | | 500V | |
| C766 | 1-107-651-11 | ELECT | 4.7MF | 20% | 250V | |
| C770 | 1-126-964-11 | ELECT | 10MF | 20% | 50V | |
| C771 | 1-102-157-00 | CERAMIC | 560PF | 10% | 500V | |
| C772 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV | |
| C773 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | |
| C774 | 1-102-050-00 | CERAMIC | 0.01MF | | 500V | |
| | | <CONNECTOR> | | | | |
| CN761 | * 1-508-784-00 | PIN, CONNECTOR (5mm PITCH) 1P | | | | |
| CN762 | * 1-564-512-11 | PLUG, CONNECTOR 9P | | | | |
| CN763 | * 1-564-509-11 | PLUG, CONNECTOR 6P | | | | |
| CN766 | 1-695-915-11 | TAB (CONTACT) | | | | |
| CN768 | ⚠1-251-179-11 | SOCKET, PICTURE TUBE | | | | |
| | | <DIODE> | | | | |
| D761 | 8-719-110-36 | DIODE RD13ESB2 | | | | |
| D762 | 8-719-901-83 | DIODE 1SS83 | | | | |
| D763 | 8-719-911-19 | DIODE 1SS119-25 | | | | |
| D764 | 8-719-110-36 | DIODE RD13ESB2 | | | | |
| D765 | 8-719-110-36 | DIODE RD13ESB2 | | | | |
| D768 | 8-719-510-48 | DIODE D1N20R | | | | |
| D769 | 8-719-110-36 | DIODE RD13ESB2 | | | | |

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | | <IC> | | | | |
| IC761 | 8-759-346-42 | IC TDA6101Q/N3 | | | | |
| | | <COIL> | | | | |
| L761 | 1-408-429-00 | INDUCTOR 470UH | | | | |
| | | <NEON LAMP> | | | | |
| NL760 | 1-519-108-99 | LAMP, NEON | | | | |
| | | <RESISTOR> | | | | |
| R761 | 1-202-847-00 | SOLID | 560K | 20% | 1/2W | |
| R763 | 1-202-883-11 | SOLID | 680K | 20% | 1/2W | |
| R764 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R767 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R768 | 1-202-549-00 | SOLID | 100 | 20% | 1/2W | |
| R769 | 1-215-423-00 | METAL | 1.2K | 1% | 1/4W | |
| R770 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R771 | 1-215-427-00 | METAL | 1.8K | 1% | 1/4W | |
| R773 | 1-215-903-11 | METAL OXIDE | 68K | 5% | 2W | F |
| R774 | 1-249-407-11 | CARBON | 150 | 5% | 1/4W | |
| R775 | 1-202-549-00 | SOLID | 100 | 20% | 1/2W | |
| | | <SPARK GAP> | | | | |
| SG761 | 1-519-422-11 | GAP, SPARK | | | | |
| SG762 | 1-519-422-11 | GAP, SPARK | | | | |
| SG763 | 1-519-422-11 | GAP, SPARK | | | | |

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* A-1372-216-A HA BOARD, COMPLETE
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| | | | | | | |
|---|---|---|---|---|---|---|
| | | <CAPACITOR> | | | | |
| C3012 | 1-126-157-11 | ELECT | 10MF | 20% | 16V | |
| C3033 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | |
| C3034 | 1-101-005-00 | CERAMIC | 0.022MF | | 50V | |
| | | <CONNECTOR> | | | | |
| CN3001 | * 1-564-526-11 | PLUG, CONNECTOR 11P | | | | |
| CN3002 | * 1-564-523-11 | PLUG, CONNECTOR 8P | | | | |
| CN3005 | * 1-564-519-11 | PLUG, CONNECTOR 4P | | | | |
| | | <DIODE> | | | | |
| D3002 | 8-719-053-43 | DIODE SLR-325VCT31 | | | | |
| D3003 | 8-719-053-43 | DIODE SLR-325VCT31 | | | | |
| D3004 | 8-719-053-43 | DIODE SLR-325VCT31 | | | | |
| | | <IC> | | | | |
| IC3001 | 8-741-780-51 | IC SBX1780-51 | | | | |
| | | <JACK> | | | | |
| J3001 | 1-764-073-11 | TERMINAL BLOCK, S 4P | | | | |
| J3031 | 1-691-293-11 | JACK | | | | |
| | | <COIL> | | | | |
| L3001 | 1-408-409-00 | INDUCTOR 10UH | | | | |
| L3002 | 1-408-409-00 | INDUCTOR 10UH | | | | |

**HA** **HB** **ZR** **ZG**

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

<RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R3001 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W |
| R3002 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R3003 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R3004 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R3005 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R3006 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R3007 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W |
| R3008 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W |
| R3009 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R3010 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W |
| R3011 | 1-249-415-11 | CARBON | 680 | 5% | 1/4W |
| R3031 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W |
| R3032 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W |
| R3033 | 1-249-412-11 | CARBON | 390 | 5% | 1/4W |
| R3034 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R3035 | 1-249-419-11 | CARBON | 1.5K | 5% | 1/4W |
| R3036 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R3037 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R3038 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |
| R3039 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W |

<SWITCH>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| S3004 | 1-571-731-11 | SWITCH, TACTIL |
| S3005 | 1-571-731-11 | SWITCH, TACTIL |
| S3006 | 1-571-731-11 | SWITCH, TACTIL |
| S3007 | 1-571-731-11 | SWITCH, TACTIL |
| S3008 | 1-571-731-11 | SWITCH, TACTIL |
| S3009 | 1-571-731-11 | SWITCH, TACTIL |
| S3010 | 1-571-731-11 | SWITCH, TACTIL |
| S3011 | 1-571-731-11 | SWITCH, TACTIL |
| S3012 | 1-571-731-11 | SWITCH, TACTIL |
| S3013 | 1-571-731-11 | SWITCH, TACTIL |

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### * A-1372-217-A HB BOARD, COMPLETE

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<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN3061 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P |
| CN3062 | * 1-691-291-11 | PIN, CONNECTOR (PC BOARD) 5P |

<SWITCH>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| S3061 | ⚠ 1-692-293-11 | SWITCH, PUSH (AC POWER)(1 KEY) |

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### * A-1390-594-A ZR BOARD, COMPLETE

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| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) |

<CAPACITOR>

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1401 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV |
| C1402 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV |
| C1403 | 1-102-978-00 | CERAMIC | 220PF | 5% | 50V |
| C1404 | 1-107-638-11 | ELECT | 33MF | 20% | 160V |
| C1405 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C1406 | 1-107-370-11 | FILM | 0.1MF | 10% | 200V |
| C1407 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C1408 | 1-107-362-11 | FILM | 0.0047MF | 10% | 200V |
| C1409 | 1-107-667-11 | ELECT | 2.2MF | 20% | 160V |
| C1410 | 1-107-362-11 | FILM | 0.0047MF | 10% | 200V |
| C1411 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C1412 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C1413 | 1-161-830-00 | CERAMIC | 0.0047MF | | 500V |
| C1414 | 1-104-661-91 | ELECT | 330MF | 20% | 16V |
| C1415 | 1-102-947-00 | CERAMIC | 10PF | 0.5PF | 50V |
| C1416 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |

<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN1411 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P |
| CN1412 | * 1-564-507-11 | PLUG, CONNECTOR 4P |
| CN1413 | * 1-564-506-11 | PLUG, CONNECTOR 3P |
| CN1414 | * 1-564-509-11 | PLUG, CONNECTOR 6P |
| CN1415 | * 1-564-510-11 | PLUG, CONNECTOR 7P |
| CN1416 | 1-695-915-11 | TAB (CONTACT) |

<DIODE>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| D1401 | 8-719-110-88 | DIODE RD39ESB2 |
| D1402 | 8-719-110-88 | DIODE RD39ESB2 |

<TRANSISTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| Q1401 | 8-729-017-06 | TRANSISTOR 2SC4793 |
| Q1402 | 8-729-017-05 | TRANSISTOR 2SA1837 |
| Q1403 | 8-729-140-96 | TRANSISTOR 2SD774-34 |

<RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK | |
|---|---|---|---|---|---|---|
| R1401 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R1402 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R1403 | 1-202-822-00 | SOLID | 2.2K | 20% | 1/2W | |
| R1404 | 1-202-822-00 | SOLID | 2.2K | 20% | 1/2W | |
| R1405 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1406 | 1-216-479-21 | METAL OXIDE | 560 | 5% | 3W | F |
| R1407 | 1-249-400-11 | CARBON | 39 | 5% | 1/4W | F |
| R1408 | 1-249-384-11 | CARBON | 1.8 | 5% | 1/4W | F |
| R1409 | 1-249-384-11 | CARBON | 1.8 | 5% | 1/4W | F |
| R1410 | 1-260-311-11 | CARBON | 39 | 5% | 1/2W | |
| R1411 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R1412 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R1413 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W | |
| R1414 | 1-249-432-11 | CARBON | 18K | 5% | 1/4W | |
| R1415 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | F |
| R1416 | 1-216-451-11 | METAL OXIDE | 120 | 5% | 2W | F |
| R1417 | 1-216-475-11 | METAL OXIDE | 120 | 5% | 3W | F |
| R1418 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R1419 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R1420 | 1-216-475-11 | METAL OXIDE | 120 | 5% | 3W | F |
| R1421 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |

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### * A-1390-595-A ZG BOARD, COMPLETE

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<CAPACITOR>

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1431 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV |
| C1432 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV |
| C1433 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |

<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN1441 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P |
| CN1442 | * 1-564-507-11 | PLUG, CONNECTOR 4P |
| CN1443 | * 1-564-506-11 | PLUG, CONNECTOR 3P |
| CN1445 | * 1-564-510-11 | PLUG, CONNECTOR 7P |

<RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R1431 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R1432 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R1433 | 1-202-822-00 | SOLID | 2.2K | 20% | 1/2W | |
| R1434 | 1-202-822-00 | SOLID | 2.2K | 20% | 1/2W | |
| R1435 | 1-216-475-11 | METAL OXIDE | 120 | 5% | 3W | F |
| R1436 | 1-216-475-11 | METAL OXIDE | 120 | 5% | 3W | F |
| R1437 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |

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### * A-1390-596-A ZB BOARD, COMPLETE

<CAPACITOR>

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| C1461 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV | |
| C1462 | 1-162-115-00 | CERAMIC | 330PF | 10% | 2KV | |

<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN1471 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P |
| CN1472 | * 1-564-507-11 | PLUG, CONNECTOR 4P |
| CN1473 | * 1-564-506-11 | PLUG, CONNECTOR 3P |

<RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R1461 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R1462 | 1-249-414-11 | CARBON | 560 | 5% | 1/4W | |
| R1463 | 1-202-822-00 | SOLID | 2.2K | 20% | 1/2W | |
| R1464 | 1-202-822-00 | SOLID | 2.2K | 20% | 1/2W | |
| R1465 | 1-216-475-11 | METAL OXIDE | 120 | 5% | 3W | F |
| R1466 | 1-216-475-11 | METAL OXIDE | 120 | 5% | 3W | F |

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### * A-1621-059-A B BOARD, COMPLETE (KP-41S3/41S3U)

### * A-1621-060-A B BOARD, COMPLETE (KP-41S3K)

<CAPACITOR>

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C3 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C4 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C5 | 1-163-017-11 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C6 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C7 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C8 | 1-163-089-00 | CERAMIC CHIP | 6PF | 0.5PF | 50V |
| C9 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C10 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C11 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C12 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C13 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C14 | 1-164-182-11 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C15 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C16 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C17 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C18 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C19 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C20 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C21 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C22 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C23 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C24 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C25 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C26 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C27 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C28 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C29 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C30 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C31 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C32 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C33 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C34 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C35 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C36 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C37 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C38 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C39 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C40 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C41 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C42 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C43 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C44 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C45 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C46 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C47 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C48 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C49 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C50 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C51 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C52 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C53 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C54 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C55 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C56 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C57 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C58 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C59 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C60 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C61 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C62 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C63 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C64 | 1-163-249-11 | CERAMIC CHIP | 82PF | 5% | 50V |
| C65 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C66 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C67 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C68 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C69 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C70 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C71 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C73 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C74 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C75 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C78 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C79 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C80 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C81 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C82 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C83 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C84 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C85 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C86 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C87 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C88 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C89 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C90 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C91 | 1-163-017-11 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C94 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C95 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C96 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |

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| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C97 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C99 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C100 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C101 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C102 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C103 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C104 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C105 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C106 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C107 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C108 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C109 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C110 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C111 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C112 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C113 | 1-164-182-11 | CERAMIC CHIP | 0.0033MF | 10% | 50V |
| C114 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C115 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C116 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C117 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C118 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C119 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C120 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C121 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C122 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C123 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C125 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C126 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C127 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C128 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C129 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C130 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C131 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C131 | 1-163-275-11 | CERAMIC CHIP | 1000PF | 5% | 50V |
| C132 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C132 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C133 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C134 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C134 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C135 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C135 | 1-163-275-11 | CERAMIC CHIP | 1000PF | 5% | 50V |
| C136 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C201 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C202 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C203 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C204 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C205 | 1-163-235-11 | CERAMIC CHIP | 22PF | 5% | 50V |
| C206 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C207 | 1-163-989-11 | CERAMIC CHIP | 0.033MF | 10% | 25V |
| C208 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C209 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C210 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C211 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C212 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C213 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C214 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C215 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C216 | 1-163-227-11 | CERAMIC CHIP | 10PF | 0.5PF | 50V |
| C217 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C219 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C220 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C221 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C223 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C224 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C225 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C226 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C227 | 1-163-229-11 | CERAMIC CHIP | 12PF | 5% | 50V |
| C228 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C229 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C230 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C231 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C232 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C233 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C234 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C235 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C236 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C237 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C238 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C239 | 1-163-127-00 | CERAMIC CHIP | 270PF | 5% | 50V |
| C240 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C241 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C242 | 1-126-956-91 | ELECT | 0.1MF | 20% | 50V |
| C243 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C245 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C246 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C247 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C249 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C250 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C251 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C253 | 1-163-033-00 | CERAMIC CHIP | 0.022MF | | 50V |
| C254 | 1-163-035-00 | CERAMIC CHIP | 0.047MF | | 50V |
| C255 | 1-163-035-00 | CERAMIC CHIP | 0.047MF | | 50V |
| C256 | 1-163-035-00 | CERAMIC CHIP | 0.047MF | | 50V |
| C257 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C258 | 1-110-501-11 | CERAMIC CHIP | 0.33MF | 10% | 16V |
| C259 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C260 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C261 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C262 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C263 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C264 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C266 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C267 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C268 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C269 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C270 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C271 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C272 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C273 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C274 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C275 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C276 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C277 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C278 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C279 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C280 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C281 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C282 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C283 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C284 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C285 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C286 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C287 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C288 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C289 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C290 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C291 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C293 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C294 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C296 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C297 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C298 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C299 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C300 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C301 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C302 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V |
| C303 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C304 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C306 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C308 | 1-163-241-11 | CERAMIC CHIP | 39PF | 5% | 50V |
| C309 | 1-163-139-00 | CERAMIC CHIP | 820PF | 5% | 50V |
| C310 | 1-163-033-00 | CERAMIC CHIP | 0.022MF | | 50V |
| C311 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C312 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C313 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C314 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C315 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C316 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C317 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C318 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C320 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V |
| C321 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C322 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V |
| C324 | 1-163-113-00 | CERAMIC CHIP | 68PF | 5% | 50V |
| C325 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C326 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C327 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C328 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C329 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C330 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C331 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C332 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C333 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C334 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C335 | 1-164-346-11 | CERAMIC CHIP | 1MF | | 16V |
| C336 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C337 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C338 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C339 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C340 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C341 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C342 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C343 | 1-163-003-11 | CERAMIC CHIP | 330PF | 10% | 50V |
| C344 | 1-163-231-11 | CERAMIC CHIP | 15PF | 5% | 50V |
| C345 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C347 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C348 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C349 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C350 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C351 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C352 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C353 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C354 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C355 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C356 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C358 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C359 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C360 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C361 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C362 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C363 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C364 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C365 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C366 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C367 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C368 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C369 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V |
| C370 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C371 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C372 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C374 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C375 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C376 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C377 | 1-163-007-11 | CERAMIC CHIP | 680PF | 10% | 50V |
| C379 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C381 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C382 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C383 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C384 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C385 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C386 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C387 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C388 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C389 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C390 | 1-163-108-00 | CERAMIC CHIP | 43PF | 5% | 50V |
| C416 | 1-163-038-00 | CERAMIC CHIP | 0.1MF | | 25V |
| C544 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C545 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C546 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C547 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C548 | 1-163-017-11 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C549 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C601 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C602 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C603 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C604 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C605 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C606 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C607 | 1-110-501-11 | CERAMIC CHIP | 0.33MF | 10% | 16V |
| C608 | 1-163-037-71 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C609 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C610 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C611 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C612 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C613 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C614 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C615 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C616 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C617 | 1-164-222-11 | CERAMIC CHIP | 0.22MF | | 25V |
| C618 | 1-163-013-71 | CERAMIC CHIP | 0.0022MF | 10% | 50V |
| C619 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C620 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C621 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C622 | 1-113-503-11 | CERAMIC CHIP | 0.0039MF | 5% | 25V |
| C623 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C624 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C625 | 1-164-695-11 | CERAMIC CHIP | 0.0022MF | 5% | 50V |
| C626 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |
| C627 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C628 | 1-163-012-00 | CERAMIC CHIP | 0.0018MF | 5% | 50V |
| C629 | 1-113-503-11 | CERAMIC CHIP | 0.0039MF | 5% | 25V |
| C630 | 1-163-017-11 | CERAMIC CHIP | 0.0047MF | 10% | 50V |
| C631 | 1-163-127-00 | CERAMIC CHIP | 270PF | 5% | 50V |
| C632 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |

<FILTER>

| | | |
|---|---|---|
| CF401 | 1-409-327-00 | TRAP, CERAMIC (6.5MHZ) |

<CONNECTOR>

| | | |
|---|---|---|
| CN1 | *1-566-367-11 | CONNECTOR, HINGE (RECEPTACLE) |
| CN2 | *1-566-367-11 | CONNECTOR, HINGE (RECEPTACLE) |
| CN3 | *1-564-521-11 | PLUG, CONNECTOR 6P |
| CN4 | 1-695-301-11 | CONNECTOR, BOARD TO BOARD 40P |
| CN5 | 1-564-523-11 | PLUG, CONNECTOR 8P |
| CN6 | 1-695-915-11 | TAB (CONTACT) |
| CN201 | *1-564-512-11 | PLUG, CONNECTOR 9P |
| CN202 | *1-564-506-11 | PLUG, CONNECTOR 3P |
| CN203 | *1-564-511-61 | PLUG, CONNECTOR 8P |
| CN204 | *1-564-514-11 | PLUG, CONNECTOR 11P |
| CN205 | *1-564-507-11 | PLUG, CONNECTOR 4P |
| CN206 | *1-564-510-11 | PLUG, CONNECTOR 7P |
| CN601 | *1-564-508-11 | PLUG, CONNECTOR 5P |

**B**

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| | | <DIODE> | |
| D1 | 8-719-914-44 | DIODE DAP202K | |
| D2 | 8-719-914-44 | DIODE DAP202K | |
| D3 | 8-719-914-43 | DIODE DAN202K | |
| D4 | 8-719-914-43 | DIODE DAN202K | |
| D5 | 8-719-914-43 | DIODE DAN202K | |
| D201 | 8-719-914-43 | DIODE DAN202K | |
| D202 | 8-719-914-43 | DIODE DAN202K | |
| D203 | 8-719-914-43 | DIODE DAN202K | |
| D204 | 8-719-914-43 | DIODE DAN202K | |
| D205 | 8-719-914-43 | DIODE DAN202K | |
| D206 | 8-719-914-43 | DIODE DAN202K | |
| D207 | 8-719-106-23 | DIODE RD7.5M-B2 | |
| D208 | 8-719-914-43 | DIODE DAN202K | |
| D209 | 8-719-047-37 | DIODE BAS16 | |
| D210 | 8-719-047-37 | DIODE BAS16 | |
| D211 | 8-719-914-43 | DIODE DAN202K | |
| D212 | 8-719-914-43 | DIODE DAN202K | |
| D215 | 8-719-914-43 | DIODE DAN202K | |
| D217 | 8-719-914-43 | DIODE DAN202K | |
| D218 | 8-719-914-43 | DIODE DAN202K | |
| D220 | 8-719-914-43 | DIODE DAN202K | |
| D221 | 8-719-914-43 | DIODE DAN202K | |
| D223 | 8-719-914-43 | DIODE DAN202K | |
| D224 | 8-719-914-43 | DIODE DAN202K | |
| D225 | 8-719-914-43 | DIODE DAN202K | |
| D226 | 8-719-914-43 | DIODE DAN202K | |
| D227 | 8-719-914-43 | DIODE DAN202K | |
| D601 | 8-719-914-43 | DIODE DAN202K | |
| D602 | 8-719-914-43 | DIODE DAN202K | |
| D603 | 8-719-914-43 | DIODE DAN202K | |
| | | <DELAY LINE> | |
| DL201 | 1-415-810-11 | DELAY LINE | |
| | | <FERRITE BEAD> | |
| FB1 | 1-412-911-11 | INDUCTOR, FERRITE BEAD | |
| FB2 | 1-412-911-11 | INDUCTOR, FERRITE BEAD | |
| | | <FILTER> | |
| FL1 | 1-236-620-11 | FILTER, LOW PASS | |
| FL2 | 1-236-620-11 | FILTER, LOW PASS | |
| FL3 | 1-236-620-11 | FILTER, LOW PASS | |
| FL201 | 1-239-803-11 | FILTER, EMI | |
| | | <IC> | |
| IC1 | 8-752-372-78 | IC CXD2024AQ | |
| IC2 | 8-759-711-62 | IC NJM2240M | |
| IC3 | 8-759-439-58 | IC TDA9143/N2 | |
| IC4 | 8-759-710-29 | IC NJM2235M | |
| IC5 | 8-759-288-85 | IC TDA4665T-T | |
| IC6 | 8-759-324-35 | IC SDA9188-3XPGEG | |
| IC7 | 8-759-248-15 | IC SDA9187-2XGEG | |
| IC8 | 8-759-183-35 | IC TDA9160A | |
| IC9 | 8-759-300-71 | IC HD14053BFP | |
| IC10 | 8-759-288-85 | IC TDA4665T-T | |
| IC201 | 8-759-370-64 | IC TPU3040-TC20 (KP-41S3/U) | |
| IC201 | 8-759-433-48 | IC TPU3041TC-22-TP (KP-41S3K) | |
| IC202 | 8-759-710-07 | IC NJM2234M(T1) | |
| IC203 | 8-759-192-13 | IC MB81C1000A-70PJ-T5 | |
| IC204 | 8-759-277-89 | IC ST24C16CM1-TR/A | |
| IC205 | 8-759-041-54 | IC MN1382S | |
| IC206 | 8-759-275-36 | IC TDA4780/V3 | |
| IC207 | 8-752-873-33 | IC CXP85460-032Q | |
| IC208 | 8-752-012-52 | IC CX20125 | |
| IC209 | 8-759-085-34 | IC TDA2822D | |
| IC210 | 8-759-008-67 | IC MC14066BF | |
| IC211 | 8-759-011-65 | IC MC74HC4053F | |
| IC212 | 8-759-336-08 | IC MSP3410 | |
| IC213 | 8-759-998-98 | IC LM358D | |
| IC214 | 8-759-037-79 | IC MC74HC163AF | |
| IC601 | 8-752-347-92 | IC CXD2018Q | |
| IC602 | 8-759-998-98 | IC LM358D | |
| IC603 | 8-759-083-85 | IC LA7856A | |
| | | <CHIP CONDUCTOR> | |
| JR202 | 1-216-295-00 | CONDUCTOR, CHIP | |
| JR203 | 1-216-295-00 | CONDUCTOR, CHIP | |
| | | <COIL> | |
| L1 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L2 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L3 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L4 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L5 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L6 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L7 | 1-408-417-00 | INDUCTOR 47UH | |
| L8 | 1-408-421-00 | INDUCTOR 100UH | |
| L9 | 1-216-295-00 | CONDUCTOR, CHIP | |
| L10 | 1-408-417-00 | INDUCTOR 47UH | |
| L11 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L12 | 1-408-421-00 | INDUCTOR 100UH | |
| L13 | 1-216-295-00 | CONDUCTOR, CHIP | |
| L14 | 1-408-418-00 | INDUCTOR 56UH | |
| L15 | 1-408-417-00 | INDUCTOR 47UH | |
| L16 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L17 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L18 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L19 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L20 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L21 | 1-408-417-00 | INDUCTOR 47UH | |
| L22 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L23 | 1-216-295-00 | CONDUCTOR, CHIP | |
| L24 | 1-412-533-21 | INDUCTOR 47UH | |
| L25 | 1-408-417-00 | INDUCTOR 47UH | |
| L201 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | |
| L202 | 1-408-417-00 | INDUCTOR 47UH | |
| L203 | 1-408-409-00 | INDUCTOR 10UH | |
| L204 | 1-408-417-00 | INDUCTOR 47UH | |
| L205 | 1-408-409-00 | INDUCTOR 10UH | |
| L206 | 1-408-405-00 | INDUCTOR 4.7UH | |
| L207 | 1-408-417-00 | INDUCTOR 47UH | |
| L208 | 1-408-409-00 | INDUCTOR 10UH | |
| L209 | 1-408-417-00 | INDUCTOR 47UH | |
| L210 | 1-408-417-00 | INDUCTOR 47UH | |
| L211 | 1-408-417-00 | INDUCTOR 47UH | |
| L212 | 1-408-417-00 | INDUCTOR 47UH | |
| L213 | 1-408-417-00 | INDUCTOR 47UH | |
| L214 | 1-408-409-00 | INDUCTOR 10UH | |
| L215 | 1-414-234-11 | INDUCTOR, FERRITE BEAD | |
| L216 | 1-408-406-00 | INDUCTOR 5.6UH | |
| L217 | 1-408-409-00 | INDUCTOR 10UH | |
| L218 | 1-414-235-11 | INDUCTOR, FERRITE BEAD | |
| L220 | 1-408-417-00 | INDUCTOR 47UH | |
| L221 | 1-408-397-00 | INDUCTOR 1UH | |
| L601 | 1-408-417-00 | INDUCTOR 47UH | |
| L602 | 1-408-417-00 | INDUCTOR 47UH | |
| L603 | 1-408-409-00 | INDUCTOR 10UH | |
| | | <TRANSISTOR> | |
| Q1 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| Q2 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q3 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q6 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q7 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q8 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q9 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q10 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q11 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q12 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q13 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q14 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q15 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q16 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q17 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q18 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q19 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q20 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q22 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q23 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q24 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q25 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q26 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q27 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q28 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q29 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q30 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q32 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q33 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q34 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q35 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q36 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q37 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q38 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q39 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q40 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q41 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q42 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q43 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q44 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q45 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q46 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q47 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q48 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q49 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q52 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q201 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q202 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q203 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q204 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q205 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q206 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q207 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q208 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q209 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q210 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q211 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q212 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q213 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q214 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q215 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q216 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q217 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q218 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q219 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q220 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q221 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q222 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q223 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q225 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q226 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q227 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q228 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q229 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q230 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q231 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q232 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q233 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q234 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q235 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q236 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q237 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q238 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q239 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q240 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q241 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q242 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q243 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q244 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q245 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q246 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q247 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q248 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q249 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q250 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q251 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q252 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q253 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q254 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q255 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q256 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q257 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q258 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q259 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q260 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q261 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q262 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q263 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q264 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q265 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q266 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q267 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q268 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q269 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q270 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q271 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q272 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q273 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q274 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q275 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q277 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q278 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q279 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q280 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q281 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q282 | 8-729-027-59 | TRANSISTOR DTC144EKA-T146 | |
| Q283 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q284 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q285 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q286 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q287 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q601 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | |
| Q602 | 8-729-027-38 | TRANSISTOR DTA144EKA-T146 | |

<RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| R1 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R2 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |
| R3 | 1-216-025-00 | METAL GLAZE 100 5% 1/10W | |

**B**

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R4 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R6 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R7 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R9 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |
| R10 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R11 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R12 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R13 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R14 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R15 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R16 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R17 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R18 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R19 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W |
| R20 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R21 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R22 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R23 | 1-216-069-00 | METAL GLAZE | 6.8K | 5% | 1/10W |
| R24 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1/10W |
| R25 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R26 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R26 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R27 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R27 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R28 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R28 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R29 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R29 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R30 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R30 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R31 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R31 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R32 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W |
| R32 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R33 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W |
| R33 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R34 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R34 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R35 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R35 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R36 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W |
| R36 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R37 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R38 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R39 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R40 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R41 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R42 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R43 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R44 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R45 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R46 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R47 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R48 | 1-216-101-00 | METAL GLAZE | 150K | 5% | 1/10W |
| R49 | 1-216-666-11 | METAL CHIP | 4.3K | 0.50% | 1/10W |
| R50 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W |
| R51 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W |
| R52 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R53 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R54 | 1-216-657-11 | METAL CHIP | 1.8K | 0.50% | 1/10W |
| R55 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R56 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R57 | 1-216-103-00 | METAL GLAZE | 180K | 5% | 1/10W |
| R58 | 1-208-784-11 | METAL CHIP | 1.2K | 0.50% | 1/10W |
| R59 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W |
| R60 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R61 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R62 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R63 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R64 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R65 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W |
| R66 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R67 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R68 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R69 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R70 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R71 | 1-216-657-11 | METAL CHIP | 1.8K | 0.50% | 1/10W |
| R72 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W |
| R73 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R74 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R75 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R76 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R77 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R78 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R79 | 1-216-635-11 | METAL CHIP | 220 | 0.50% | 1/10W |
| R80 | 1-216-635-11 | METAL CHIP | 220 | 0.50% | 1/10W |
| R83 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R84 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R85 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R86 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R87 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R88 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R89 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R90 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R91 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R92 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R93 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R94 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R95 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R96 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R97 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R99 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R100 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R101 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R102 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R103 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R105 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R106 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R107 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R108 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R109 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R110 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R111 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R113 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R116 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R117 | 1-216-048-00 | METAL GLAZE | 910 | 5% | 1/10W |
| R118 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R119 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R120 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R121 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R122 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R123 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R124 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R127 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R128 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R129 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R130 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R131 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R132 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R133 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R134 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R135 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R136 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R137 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R138 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R139 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R140 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R141 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R142 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W |
| R143 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R144 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R145 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R146 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R147 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R148 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W |
| R149 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R150 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R151 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R153 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R154 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R156 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R157 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R158 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R159 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R162 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R163 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R164 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R165 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R166 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W |
| R167 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R169 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R170 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R171 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R172 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W |
| R173 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R174 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R175 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R176 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R177 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R178 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R179 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R180 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R181 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R183 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W |
| R184 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R185 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R186 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W |
| R187 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R188 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R189 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R190 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R191 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R192 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R193 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R194 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R195 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R196 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R197 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R198 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R199 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R201 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R202 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R203 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R204 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R205 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R206 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R207 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R208 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R209 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R210 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R211 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W |
| R212 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R213 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R214 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R215 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R216 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R217 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R218 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R219 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R220 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R221 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R222 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R223 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R224 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R225 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R226 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W |
| R227 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R228 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R229 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R230 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R231 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R232 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R233 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R234 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R235 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R236 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R237 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R238 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R239 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R240 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R241 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R242 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R243 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R244 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R245 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R247 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W |
| R248 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R249 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R250 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R251 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R252 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R253 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R255 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R256 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R257 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |
| R258 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R259 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R260 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R261 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R262 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R263 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R264 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R266 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R267 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W |
| R268 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W |
| R269 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R270 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R271 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R272 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R273 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R274 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R275 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R276 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R277 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R278 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R279 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R280 | 1-216-013-00 | METAL GLAZE | 33 | 5% | 1/10W |
| R281 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R282 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R283 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R284 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R285 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R286 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R287 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |

**B**

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R288 | 1-216-013-00 | METAL GLAZE | 33 | 5% | 1/10W | |
| R290 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R291 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R292 | 1-208-822-11 | METAL CHIP | 47K | 0.50% | 1/10W | |
| R293 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R294 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R296 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R297 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R298 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R299 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R300 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R302 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R305 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R306 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R307 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R309 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R310 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R311 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R312 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R313 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R314 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R315 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R316 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R317 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R318 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R319 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R320 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R321 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R322 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R323 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R324 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R325 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R327 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R328 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R329 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R330 | 1-218-756-11 | METAL CHIP | 150K | 0.50% | 1/10W | |
| R331 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R332 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R333 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R334 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R335 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R336 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R337 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R338 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R339 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R340 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R341 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R342 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R343 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R344 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R345 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R346 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R347 | 1-208-845-11 | METAL GLAZE | 1M | 5% | 1/10W | |
| R348 | 1-218-754-11 | METAL CHIP | 120K | 0.50% | 1/10W | |
| R349 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R350 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R351 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R352 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R353 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R354 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R355 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R356 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R358 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R359 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R360 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R361 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R362 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R363 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R364 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R365 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R366 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | |
| R367 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R368 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R369 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R370 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R371 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R372 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R373 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R374 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R375 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R376 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R377 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R378 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R379 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R380 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R381 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R382 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R383 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R384 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R385 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R386 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R387 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R388 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R389 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R390 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R391 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R392 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R393 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R394 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R395 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W | |
| R396 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W | |
| R397 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R398 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R399 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R400 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R401 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R402 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R403 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R404 | 1-216-107-00 | METAL GLAZE | 270K | 5% | 1/10W | |
| R406 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R407 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R408 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R409 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R410 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W | |
| R411 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R412 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R413 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R414 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R415 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W | |
| R416 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R417 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R418 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R419 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R420 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R421 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R422 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R423 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R424 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R425 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R426 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R427 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R428 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R429 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R430 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R431 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R432 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R433 | 1-249-399-11 | CARBON | 33 | 5% | 1/4W | F |

**B**

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK | |
|---|---|---|---|---|---|---|
| R434 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R435 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R436 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W | |
| R437 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R438 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R439 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R440 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R441 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R442 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R443 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R444 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R445 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R446 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R447 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R448 | 1-216-005-00 | METAL GLAZE | 15 | 5% | 1/10W | |
| R449 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R450 | 1-216-039-00 | METAL GLAZE | 390 | 5% | 1/10W | |
| R451 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R452 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R453 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R454 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R455 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R456 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R457 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R458 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R459 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R460 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R461 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R462 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R463 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R464 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R465 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R466 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R467 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W | |
| R468 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W | |
| R469 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R470 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R471 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R472 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R473 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R474 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R475 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R476 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R477 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R478 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R480 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R481 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R482 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R483 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R484 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R486 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R487 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R488 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R489 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R492 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R493 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R494 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R495 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R496 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R497 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R498 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R499 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R500 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R501 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R502 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R503 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R504 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R505 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK | |
|---|---|---|---|---|---|---|
| R506 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R507 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R508 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R509 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R510 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R511 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R512 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R513 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R514 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R515 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R516 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R517 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R519 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R520 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R521 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R522 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R527 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R528 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R538 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R539 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R540 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R541 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R542 | 1-208-845-11 | METAL GLAZE | 1M | 5% | 1/10W | |
| R543 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W | |
| R544 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R546 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R547 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W | |
| R548 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R551 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R553 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R554 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R555 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R556 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R558 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R559 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R561 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R562 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R563 | 1-249-402-11 | CARBON | 56 | 5% | 1/4W | F |
| R564 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R565 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R566 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R568 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R569 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R574 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R575 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R576 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| R577 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| R578 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R579 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R580 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R581 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R582 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R583 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R584 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R585 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W | |
| R588 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R589 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R590 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R591 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R601 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R602 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R603 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R604 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R605 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R606 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R607 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R608 | 1-216-109-00 | METAL GLAZE | 330K | 5% | 1/10W | |
| R609 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |

# B B2

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R610 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R611 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R612 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W |
| R613 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R614 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R615 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R616 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R617 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R618 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R619 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R620 | 1-216-674-11 | METAL CHIP | 9.1K | 0.50% | 1/10W |
| R621 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R622 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W |
| R623 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R624 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R625 | 1-216-651-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R627 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W |
| R628 | 1-216-677-11 | METAL CHIP | 12K | 0.50% | 1/10W |
| R629 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R630 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R631 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R632 | 1-216-687-11 | METAL CHIP | 33K | 0.50% | 1/10W |
| R633 | 1-216-651-11 | METAL CHIP | 1K | 0.50% | 1/10W |
| R634 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W |
| R635 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R636 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R640 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R182M | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R4102 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R4103 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R4104 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R4105 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R4106 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R4107 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R4108 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R4109 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R4110 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R4111 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R4112 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R4113 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R4114 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W |
| R4115 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W |
| R4116 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W |
| R4117 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1/10W |
| R4118 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R4119 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R4120 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R4121 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R4123 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R4124 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R4124 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W |
| R4125 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R4125 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W |
| R4125 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W |
| R4126 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1/10W |
| R4127 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R4128 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R4129 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R4130 | 1-216-107-00 | METAL GLAZE | 270K | 5% | 1/10W |
| R4131 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |

<VARIABLE RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| RV1 | 1-241-769-11 | RES, ADJ, CARBON 470K |
| RV2 | 1-241-769-11 | RES, ADJ, CARBON 470K |
| RV601 | 1-241-763-11 | RES, ADJ, CERMET 4.7K |

<CRYSTAL>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| X1 | 1-567-505-11 | OSCILLATOR, CRYSTAL |
| X2 | 1-567-504-11 | OSCILLATOR, CRYSTAL |
| X3 | 1-567-505-11 | OSCILLATOR, CRYSTAL |
| X4 | 1-567-504-11 | OSCILLATOR, CRYSTAL |
| X5 | 1-760-095-21 | VIBRATOR, CRYSTAL |
| X201 | 1-760-509-21 | VIBRATOR, CRYSTAL |
| X202 | 1-760-180-11 | VIBRATOR, CRYSTAL |
| X203 | 1-579-977-21 | VIBRATOR, CRYSTAL |

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## * A-1620-082-A B2 BOARD, COMPLETE (French only)

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<CAPACITOR>

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C3501 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3502 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3503 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 25V |
| C3504 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C3505 | 1-163-143-00 | CERAMIC CHIP | 0.0012MF | 5% | 50V |
| C3506 | 1-163-121-00 | CERAMIC CHIP | 150PF | 5% | 50V |
| C3507 | 1-163-145-00 | CERAMIC CHIP | 0.0015MF | 5% | 50V |
| C3508 | 1-163-127-00 | CERAMIC CHIP | 270PF | 5% | 50V |
| C3509 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3510 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C3512 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C3513 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C3514 | 1-163-037-71 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C3515 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C3516 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C3517 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C3518 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3519 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C3520 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C3521 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3522 | 1-163-253-11 | CERAMIC CHIP | 120PF | 5% | 50V |
| C3523 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3524 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C3525 | 1-163-237-11 | CERAMIC CHIP | 27PF | 5% | 50V |
| C3526 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3527 | 1-163-037-71 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C3528 | 1-164-004-11 | CERAMIC CHIP | 0.1MF | 10% | 25V |
| C3529 | 1-163-011-11 | CERAMIC CHIP | 0.0015MF | 10% | 50V |
| C3530 | 1-163-001-11 | CERAMIC CHIP | 220PF | 10% | 50V |
| C3531 | 1-163-123-00 | CERAMIC CHIP | 180PF | 5% | 50V |
| C3532 | 1-163-037-71 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C3535 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C3536 | 1-163-133-00 | CERAMIC CHIP | 470PF | 5% | 50V |

<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN3501 | * 1-564-511-11 | PLUG, CONNECTOR 8P |

<DIODE>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| D3502 | 8-719-914-43 | DIODE DAN202K |

<IC>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| IC3501 | 8-759-181-19 | IC TDA2579B |
| IC3502 | 8-759-521-22 | IC TDA4650/V4 |
| IC3503 | 8-759-140-53 | IC uPD4053BC |

<CHIP CONDUCTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| JR3501 | 1-216-295-00 | CONDUCTOR, CHIP |
| JR3502 | 1-216-295-00 | CONDUCTOR, CHIP |

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | | <COIL> | | | |
| L3501 | 1-408-417-00 | INDUCTOR 47UH | | | |
| L3502 | 1-408-417-00 | INDUCTOR 47UH | | | |
| L3503 | 1-404-554-11 | COIL | | | |
| L3504 | 1-408-421-00 | INDUCTOR 100UH | | | |
| L3505 | 1-404-554-11 | COIL | | | |
| | | <TRANSISTOR> | | | |
| Q3501 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q3502 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q3505 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q3506 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q3507 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q3508 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q3509 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q3510 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q3511 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| | | <RESISTOR> | | | |
| R3501 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3502 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3503 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3504 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W |
| R3505 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R3506 | 1-216-687-11 | METAL CHIP | 33K | 0.50% | 1/10W |
| R3507 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R3508 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R3510 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R3511 | 1-216-001-00 | METAL GLAZE | 10 | 5% | 1/10W |
| R3512 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R3513 | 1-216-009-00 | METAL GLAZE | 22 | 5% | 1/10W |
| R3515 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W |
| R3516 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R3517 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1/10W |
| R3518 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W |
| R3519 | 1-216-037-00 | METAL GLAZE | 330 | 5% | 1/10W |
| R3520 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3521 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R3522 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3523 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W |
| R3524 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W |
| R3525 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R3526 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3527 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3528 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3529 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W |
| R3530 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1/10W |
| R3531 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3532 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R3533 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3534 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R3537 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3538 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R3539 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W |
| R3540 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R3541 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| | | <VARIABLE RESISTOR> | | | |
| RV3501 | 1-241-763-11 | RES, ADJ, CERMET 4.7K | | | |

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| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | * A-1632-472-A | A BOARD, COMPLETE<br>********************* | | | |
| | 4-365-216-00 | SPACER, MICA | | | |
| | 4-382-854-11 | SCREW (M3X10), P, SW (+) | | | |
| | | <CAPACITOR> | | | |
| C1001 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV |
| C1002 | 1-107-637-11 | ELECT | 22MF | 20% | 160V |
| C1003 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C1004 | 1-107-368-11 | FILM | 0.047MF | 10% | 200V |
| C1005 | 1-136-076-00 | FILM | 0.0085MF | 3% | 2KV |
| C1006 | 1-137-391-11 | FILM | 0.0047MF | 5% | 100V |
| C1007 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C1008 | 1-102-973-00 | CERAMIC | 100PF | 5% | 50V |
| C1009 | 1-136-598-11 | FILM | 3MF | 5% | 200V |
| C1010 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V |
| C1011 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C1012 | 1-136-105-00 | FILM | 0.33MF | 5% | 200V |
| C1013 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1014 | 1-107-368-11 | FILM | 0.047MF | 10% | 200V |
| C1015 | 1-136-756-11 | FILM | 0.24MF | 5% | 200V |
| C1016 | 1-107-638-11 | ELECT | 33MF | 20% | 160V |
| C1017 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C1018 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C1019 | 1-123-024-21 | ELECT | 33MF | | 160V |
| C1020 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C1021 | 1-137-370-11 | FILM | 0.01MF | 5% | 50V |
| C1023 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1025 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1026 | 1-102-121-00 | CERAMIC | 0.0022MF | 10% | 50V |
| C1027 | 1-136-105-00 | FILM | 0.33MF | 5% | 200V |
| C1028 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1029 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |
| C1033 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1034 | 1-102-121-00 | CERAMIC | 0.0022MF | 10% | 50V |
| C1035 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1036 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C1037 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1038 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1039 | 1-102-121-00 | CERAMIC | 0.0022MF | 10% | 50V |
| C1040 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1041 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1042 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C1043 | 1-101-002-00 | CERAMIC | 0.0022MF | | 50V |
| C1044 | 1-101-002-00 | CERAMIC | 0.0022MF | | 50V |
| C1045 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1046 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C1047 | 1-101-002-00 | CERAMIC | 0.0022MF | | 50V |
| C1048 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1049 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C1050 | 1-101-002-00 | CERAMIC | 0.0022MF | | 50V |
| C1051 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C1052 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1054 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C1055 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1056 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C1061 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1064 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C1079 | 1-163-263-11 | CERAMIC CHIP | 330PF | 5% | 50V |
| C1080 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1081 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C1082 | 1-128-551-11 | ELECT | 22MF | 20% | 25V |
| C1083 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |
| C1084 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C1085 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |
| C1086 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |
| C1087 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |

**A**

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1088 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |
| C1089 | 1-164-096-11 | CERAMIC | 0.01MF | | 50V |
| C1090 | 1-162-116-00 | CERAMIC | 680PF | 10% | 2KV |
| C3201 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C3202 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C3203 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C3204 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3205 | 1-126-301-11 | ELECT | 1MF | 20% | 50V |
| C3206 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C3207 | 1-128-550-11 | ELECT | 2200MF | 20% | 50V |
| C3208 | 1-128-550-11 | ELECT | 2200MF | 20% | 50V |
| C3209 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C3210 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C3211 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C3212 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C3213 | 1-107-715-11 | ELECT | 22MF | 20% | 50V |
| C3214 | 1-126-969-11 | ELECT | 220MF | 20% | 50V |
| C3215 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C3216 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| | | <CONNECTOR> | | | |
| CN1001 | * 1-573-963-11 | PIN, CONNECTOR (PC BOARD) 3P | | | |
| CN1002 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P | | | |
| CN1003 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P | | | |
| CN1004 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P | | | |
| CN1005 | 1-695-915-11 | TAB (CONTACT) | | | |
| CN1006 | * 1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| CN1008 | * 1-508-765-00 | PIN, CONNECTOR (5mm PITCH) 3P | | | |
| CN1009 | * 1-508-768-00 | PIN, CONNECTOR (5mm PITCH) 6P | | | |
| CN1010 | * 1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| CN1011 | * 1-564-509-11 | PLUG, CONNECTOR 6P | | | |
| CN1013 | * 1-564-515-11 | PLUG, CONNECTOR 12P | | | |
| CN1015 | * 1-564-506-11 | PLUG, CONNECTOR 3P | | | |
| CN1016 | 1-695-298-11 | CONNECTOR, BOARD TO BOARD 40P | | | |
| CN3201 | * 1-564-510-11 | PLUG, CONNECTOR 7P | | | |
| CN3202 | * 1-508-766-00 | PIN, CONNECTOR (5mm PITCH) 4P | | | |
| CN3203 | * 1-564-507-11 | PLUG, CONNECTOR 4P | | | |
| | | <DIODE> | | | |
| D1001 | 8-719-018-82 | DIODE RGP02-20EL-6394 | | | |
| D1002 | 8-719-300-80 | DIODE RU-1C | | | |
| D1003 | 8-719-900-95 | DIODE V09G | | | |
| D1004 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1005 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1006 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1007 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1008 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1009 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1010 | 8-719-900-95 | DIODE V09G | | | |
| D1012 | 8-719-110-78 | DIODE RD33ESB2 | | | |
| D1013 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1014 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1015 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1016 | 8-719-911-19 | DIODE 1SS119-25 | | | |
| D1017 | 8-719-510-48 | DIODE D1N20R | | | |
| D1018 | 8-719-510-48 | DIODE D1N20R | | | |
| D3201 | 8-719-914-44 | DIODE DAP202K | | | |
| D3202 | 8-719-914-43 | DIODE DAN202K | | | |
| D3203 | 8-719-988-72 | DIODE SC802-06 | | | |
| D3204 | 8-719-914-43 | DIODE DAN202K | | | |
| D3206 | 8-719-914-43 | DIODE DAN202K | | | |
| D3207 | 8-719-914-43 | DIODE DAN202K | | | |
| D3209 | 8-719-914-43 | DIODE DAN202K | | | |
| D3210 | 8-719-914-43 | DIODE DAN202K | | | |
| D3211 | 8-719-988-72 | DIODE SC802-06 | | | |

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| | | <IC> | | | | |
| IC1001 | 8-759-504-46 | IC PQ05RF1 | | | | |
| IC1002 | 8-759-504-46 | IC PQ05RF1 | | | | |
| IC1003 | 8-759-506-12 | IC PQ12RF1 | | | | |
| IC1004 | 8-759-095-63 | IC PQ09RF2 | | | | |
| IC1005 | 8-759-701-88 | IC NJM7912FA | | | | |
| IC1006 | 8-759-231-53 | IC TA7805S | | | | |
| IC3201 | 8-759-190-89 | IC TDA7265 | | | | |
| | | <IF BLOCK> | | | | |
| IF1001 | 1-467-573-13 | IF BLOCK | | | | |
| | | <COIL> | | | | |
| L1001 | 1-411-189-11 | COIL, CHOKE 15mH | | | | |
| L1002 | 1-459-769-13 | COIL, HORIZONTAL LINEARITY | | | | |
| L1003 | 1-408-417-00 | INDUCTOR 47UH | | | | |
| L1004 | 1-408-417-00 | INDUCTOR 47UH | | | | |
| L1006 | 1-412-533-21 | INDUCTOR 47UH | | | | |
| L1007 | 1-408-417-00 | INDUCTOR 47UH | | | | |
| L1009 | 1-408-417-00 | INDUCTOR 47UH | | | | |
| L1010 | 1-412-533-21 | INDUCTOR 47UH | | | | |
| | | <TRANSISTOR> | | | | |
| Q1001 | 8-729-021-48 | TRANSISTOR 2SD2348LBSONY | | | | |
| Q1002 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | | | | |
| Q1003 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q1004 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q1005 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1006 | 8-729-201-32 | TRANSISTOR 2SA1013-O | | | | |
| Q1007 | 8-729-201-32 | TRANSISTOR 2SA1013-O | | | | |
| Q1008 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q1009 | 8-729-010-98 | TRANSISTOR 2SA1492M-OPY | | | | |
| Q1010 | 8-729-304-92 | TRANSISTOR 2SB649A-C | | | | |
| Q1011 | 8-729-029-56 | TRANSISTOR DTA144ESA | | | | |
| Q1012 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1013 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1014 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1015 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q1016 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1017 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1020 | 8-729-026-41 | TRANSISTOR 2SA933AS-QRT | | | | |
| Q1022 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q1023 | 8-729-030-03 | TRANSISTOR DTC144ESA-TP | | | | |
| Q1024 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q1025 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q1026 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q3201 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q3204 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q3205 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q3206 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q3207 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q3208 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q3209 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q3210 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| | | <RESISTOR> | | | | |
| R1001 | 1-215-865-11 | METAL OXIDE | 220 | 5% | 1W | F |
| R1002 | 1-247-735-11 | SOLID | 47 | 20% | 1/2W | |
| R1003 | 1-216-478-11 | METAL OXIDE | 390 | 5% | 3W | F |
| R1004 | 1-215-925-11 | METAL OXIDE | 22K | 5% | 3W | F |
| R1005 | 1-215-925-11 | METAL OXIDE | 22K | 5% | 3W | F |
| R1006 | 1-216-373-11 | METAL OXIDE | 2.2 | 5% | 2W | F |
| R1007 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R1009 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | F |

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK | |
|---|---|---|---|---|---|---|
| R1010 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1011 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W | |
| R1012 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1013 | 1-215-913-11 | METAL OXIDE | 220 | 5% | 3W | F |
| R1014 | 1-215-913-11 | METAL OXIDE | 220 | 5% | 3W | F |
| R1015 | 1-215-429-00 | METAL | 2.2K | 1% | 1/4W | |
| R1016 | 1-215-433-00 | METAL | 3.3K | 1% | 1/4W | |
| R1017 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R1018 | 1-247-895-00 | CARBON | 470K | 5% | 1/4W | |
| R1019 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | F |
| R1020 | 1-249-423-11 | CARBON | 3.3K | 5% | 1/4W | F |
| R1021 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R1022 | 1-215-443-00 | METAL | 8.2K | 1% | 1/4W | |
| R1023 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R1024 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1025 | 1-215-425-00 | METAL | 1.5K | 1% | 1/4W | |
| R1026 | 1-215-925-11 | METAL OXIDE | 22K | 5% | 3W | F |
| R1027 | 1-215-437-00 | METAL | 4.7K | 1% | 1/4W | |
| R1028 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1029 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1030 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R1031 | 1-215-877-11 | METAL OXIDE | 22K | 5% | 1W | F |
| R1032 | 1-249-430-11 | CARBON | 12K | 5% | 1/4W | F |
| R1033 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R1034 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R1035 | 1-249-418-11 | CARBON | 1.2K | 5% | 1/4W | |
| R1036 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R1037 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1038 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1039 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W | |
| R1040 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R1041 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1042 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1043 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | |
| R1044 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R1045 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1046 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R1047 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1048 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R1049 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1052 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R1053 | 1-216-476-11 | METAL OXIDE | 180 | 5% | 3W | F |
| R1054 | 1-215-912-11 | METAL OXIDE | 150 | 5% | 3W | F |
| R1057 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1060 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W | |
| R1063 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1064 | 1-216-389-11 | METAL OXIDE | 1 | 5% | 3W | F |
| R1065 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R1066 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R1067 | 1-249-409-11 | CARBON | 220 | 5% | 1/4W | |
| R1069 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R1074 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R1084 | 1-215-901-00 | METAL OXIDE | 33K | 5% | 2W | F |
| R1101 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R1102 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | |
| R1103 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R1104 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R1105 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1106 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R1107 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1108 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R1109 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R3201 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3202 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3203 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3204 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3205 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3206 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3207 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3208 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R3209 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3210 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R3211 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3212 | 1-216-099-00 | METAL GLAZE | 120K | 5% | 1/10W | |
| R3213 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R3214 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R3215 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R3216 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R3217 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3218 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3219 | 1-216-357-00 | METAL OXIDE | 4.7 | 5% | 1W | F |
| R3220 | 1-216-357-00 | METAL OXIDE | 4.7 | 5% | 1W | F |
| R3221 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R3222 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R3223 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W | |
| R3224 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3225 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R3226 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3227 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3228 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R3229 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R3230 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R3231 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R3232 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R3233 | 1-216-099-00 | METAL GLAZE | 120K | 5% | 1/10W | |
| R3234 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R3235 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R3236 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |

<RELAY>

| | | |
|---|---|---|
| RY3201 | 1-515-833-11 | RELAY |

<TRANSFORMER>

| | | |
|---|---|---|
| T1001 | 1-437-078-00 | TRANSFORMER, HORIZONTAL DRIVE |

<TUNER>

| | | |
|---|---|---|
| TU1001 | 1-693-185-11 | TUNER UV916H |

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* A-1637-006-A G BOARD, COMPLETE
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4-382-854-11 SCREW (M3X10), P, SW (+)

<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C6001 | ⚠ 1-161-742-00 | CERAMIC | 0.0022MF | 20% | 400V |
| C6002 | 1-104-708-11 | FILM | 0.47MF | 20% | 250V |
| C6003 | 1-126-944-11 | ELECT | 3300MF | 20% | 25V |
| C6004 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C6006 | 1-104-706-11 | FILM | 0.22MF | 20% | 250V |
| C6007 | ⚠ 1-161-742-00 | CERAMIC | 0.0022MF | 20% | 400V |
| C6008 | 1-104-706-11 | FILM | 0.22MF | 20% | 250V |
| C6011 | 1-107-670-11 | ELECT | 10MF | 20% | 400V |
| C6012 | 1-102-112-00 | CERAMIC | 330PF | 10% | 50V |
| C6018 | 1-125-483-11 | ELECT(BLOCK) | 470MF | 20% | 400V |
| C6019 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C6020 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C6021 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C6026 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C6027 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C6030 | 1-115-405-11 | FILM | 0.039MF | 3% | 1KV |
| C6031 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C6032 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C6033 | 1-130-471-00 | FILM | 0.001MF | 2% | 50V |
| C6034 | 1-101-810-00 | CERAMIC | 100PF | 5% | 500V |
| C6035 | 1-101-810-00 | CERAMIC | 100PF | 5% | 500V |
| C6036 | 1-126-768-11 | ELECT | 2200MF | 20% | 16V |
| C6037 | 1-126-943-11 | ELECT | 2200MF | 20% | 25V |
| C6038 | 1-126-946-11 | ELECT | 6800MF | 20% | 25V |
| C6039 | 1-126-972-11 | ELECT | 1000MF | 20% | 50V |
| C6040 | 1-126-972-11 | ELECT | 1000MF | 20% | 50V |
| C6041 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C6042 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C6043 | 1-107-639-11 | ELECT | 47MF | 20% | 160V |
| C6044 | 1-107-641-11 | ELECT | 220MF | 20% | 160V |
| C6045 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C6046 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C6047 | 1-102-820-00 | CERAMIC | 330PF | 5% | 50V |
| C6048 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C6049 | 1-136-165-00 | FILM | 0.1MF | 5% | 50V |
| C6050 | 1-109-954-11 | ELECT | 0.47MF | 20% | 160V |
| C6051 | 1-126-935-11 | ELECT | 470MF | 20% | 6.3V |
| C6052 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C6053 | 1-164-625-11 | CERAMIC | 680PF | 10% | 500V |
| C6054 | 1-107-639-11 | ELECT | 47MF | 20% | 160V |
| C6055 | 1-107-641-11 | ELECT | 220MF | 20% | 160V |
| C6057 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V |
| C6058 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V |
| C6059 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V |
| C6060 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V |
| C6061 | 1-102-114-00 | CERAMIC | 470PF | 10% | 50V |
| C6064 | 1-113-893-51 | CERAMIC | 0.0047MF | 20% | 250V |
| C6065 | 1-113-893-51 | CERAMIC | 0.0047MF | 20% | 250V |

<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN6001 | 1-695-915-11 | TAB (CONTACT) |
| CN6002 | 1-695-915-11 | TAB (CONTACT) |
| CN6003 | 1-695-915-11 | TAB (CONTACT) |
| CN6004 | * 1-564-506-11 | PLUG, CONNECTOR 3P |
| CN6005 | * 1-580-843-11 | PIN, CONNECTOR (POWER) |
| CN6006 | * 1-580-689-11 | PIN, CONNECTOR (PC BOARD) 4P |
| CN6007 | * 1-691-291-11 | PIN, CONNECTOR (PC BOARD) 5P |
| CN6008 | * 1-564-509-11 | PLUG, CONNECTOR 6P |
| CN6009 | * 1-564-507-11 | PLUG, CONNECTOR 4P |
| CN6010 | * 1-508-768-00 | PIN, CONNECTOR (5mm PITCH) 6P |
| CN6011 | * 1-573-986-11 | PIN, CONNECTOR (PC BOARD) 5P |
| CN6012 | * 1-508-766-00 | PIN, CONNECTOR (5mm PITCH) 4P |
| CN6013 | * 1-508-765-00 | PIN, CONNECTOR (5mm PITCH) 3P |

<DIODE>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| D6001 | 8-719-979-58 | DIODE EGP10D |
| D6002 | 8-719-979-58 | DIODE EGP10D |
| D6003 | 8-719-510-53 | DIODE D4SB60L |
| D6005 | 8-719-110-72 | DIODE RD30ESB2 |
| D6007 | 8-719-911-55 | DIODE U05G |
| D6008 | 8-719-979-64 | DIODE UF4005PKG23 |
| D6009 | 8-719-059-23 | DIODE P6KE200AG23 |
| D6012 | 8-719-911-19 | DIODE 1SS119-25 |
| D6013 | 8-719-110-12 | DIODE RD9.1ESB1 |
| D6014 | 8-719-911-19 | DIODE 1SS119-25 |
| D6017 | 8-719-510-64 | DIODE S2LA20F |
| D6018 | 8-719-911-19 | DIODE 1SS119-25 |
| D6025 | 8-719-510-64 | DIODE S2LA20F |
| D6032 | 8-719-911-19 | DIODE 1SS119-25 |
| D6033 | 8-719-911-19 | DIODE 1SS119-25 |
| D6035 | 8-719-018-83 | DIODE D2S4M |
| D6036 | 8-719-018-83 | DIODE D2S4M |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D6037 | 8-719-031-78 | DIODE S2L40F | |
| D6038 | 8-719-312-47 | DIODE RBA-406B | |
| D6039 | 8-719-510-12 | DIODE D10SC4M | |
| D6040 | 8-719-027-20 | DIODE D3S4M-F | |
| D6041 | 8-719-027-20 | DIODE D3S4M-F | |
| D6042 | 8-719-979-64 | DIODE UF4005PKG23 | |
| D6043 | 8-719-110-52 | DIODE RD20ESB1 | |
| D6044 | 8-719-979-64 | DIODE UF4005PKG23 | |
| D6045 | 8-719-110-52 | DIODE RD20ESB1 | |
| D6046 | 8-719-110-52 | DIODE RD20ESB1 | |
| D6047 | 8-719-110-52 | DIODE RD20ESB1 | |
| D6048 | ⚠ 8-719-947-57 | DIODE MTZJ-T-72-13B | |
| D6049 | 8-719-031-78 | DIODE S2L40F | |
| D6050 | 8-719-911-19 | DIODE 1SS119-25 | |
| D6051 | 8-719-911-19 | DIODE 1SS119-25 | |
| D6052 | 8-719-027-20 | DIODE D3S4M-F | |
| D6053 | 8-719-027-20 | DIODE D3S4M-F | |

<FUSE>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| F6001 | ⚠ 1-576-232-11 | FUSE (H.B.C.) 5A/250V |
| | * 1-533-725-11 | HOLDER, FUSE ; F6001 |

<FERRITE BEAD>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| FB6008 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |
| FB6009 | 1-410-397-21 | FERRITE BEAD INDUCTOR 1.1UH |

<IC>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| IC6001 | 8-759-426-45 | IC TOP210PF1 |
| IC6004 | 8-759-077-25 | IC IR3M02A |
| IC6005 | ⚠ 8-749-010-64 | PHOTO COUPLER PC123F2 |
| IC6006 | ⚠ 8-749-010-64 | PHOTO COUPLER PC123F2 |
| IC6007 | 8-759-185-47 | IC IR2112 |
| IC6008 | ⚠ 8-749-923-26 | IC SE135N-LF12 |

<COIL>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| L6001 | 1-412-533-21 | INDUCTOR 47UH |
| L6002 | 1-412-525-31 | INDUCTOR 10UH |
| L6003 | 1-412-525-31 | INDUCTOR 10UH |
| L6004 | 1-412-525-31 | INDUCTOR 10UH |
| L6005 | 1-412-525-31 | INDUCTOR 10UH |
| L6006 | 1-406-659-11 | COIL, CHOKE 10UH |
| L6007 | 1-412-533-21 | INDUCTOR 47UH |
| L6008 | 1-412-533-21 | INDUCTOR 47UH |
| L6009 | 1-412-525-31 | INDUCTOR 10UH |
| L6010 | 1-412-525-31 | INDUCTOR 10UH |
| L6011 | 1-412-525-31 | INDUCTOR 10UH |

<TRANSISTOR>

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| Q6001 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q6002 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | | |
| Q6003 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q6005 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | | |
| Q6009 | 8-729-140-97 | TRANSISTOR 2SB734-34 | | | | |
| Q6010 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q6011 | 8-729-119-78 | TRANSISTOR 2SC2785-HFE | | | | |
| Q6012 | 8-729-119-76 | TRANSISTOR 2SA1175-HFE | | | | |
| Q6013 | 8-729-820-82 | TRANSISTOR 2SA1208-T | | | | |
| Q6014 | 8-729-028-10 | TRANSISTOR IRFI744G-LF | | | | |
| Q6015 | 8-729-028-10 | TRANSISTOR IRFI744G-LF | | | | |
| Q6066 | 1-216-366-00 | METAL OXIDE | 0.56 | 5% | 2W | F |

<RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION | | | |
|---|---|---|---|---|---|
| R6000 | 1-202-719-00 | SOLID | 1M | 20% | 1/2W |

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK | |
|---|---|---|---|---|---|---|
| R6001 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R6002 | ⚠1-218-265-11 | METAL | 8.2M | 5% | 1W | |
| R6006 | 1-205-998-11 | WIREWOUND | 1 | 5% | 10W | |
| R6007 | 1-205-998-11 | WIREWOUND | 1 | 5% | 10W | |
| R6008 | 1-216-099-00 | METAL GLAZE | 120K | 5% | 1/10W | |
| R6009 | 1-247-889-00 | CARBON | 270K | 5% | 1/4W | |
| R6010 | 1-247-889-00 | CARBON | 270K | 5% | 1/4W | |
| R6013 | 1-205-998-11 | WIREWOUND | 1 | 5% | 10W | |
| R6014 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R6018 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R6019 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W | |
| R6022 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | |
| R6027 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R6032 | 1-202-933-61 | FUSIBLE | 0.1 | 10% | 1/2W | F |
| R6034 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R6045 | 1-216-660-11 | METAL CHIP | 2.4K | 0.50% | 1/10W | |
| R6046 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R6047 | 1-249-437-11 | CARBON | 47K | 5% | 1/4W | |
| R6048 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R6049 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R6050 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R6051 | 1-216-674-11 | METAL CHIP | 9.1K | 0.50% | 1/10W | |
| R6052 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R6053 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R6054 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | |
| R6055 | 1-249-422-11 | CARBON | 2.7K | 5% | 1/4W | |
| R6056 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | |
| R6057 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R6058 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |
| R6059 | 1-247-843-11 | CARBON | 3.3K | 5% | 1/4W | |
| R6060 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R6061 | 1-215-473-00 | METAL | 150K | 1% | 1/4W | |
| R6062 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R6063 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| R6064 | 1-249-397-11 | CARBON | 22 | 5% | 1/4W | F |
| R6065 | 1-249-441-11 | CARBON | 100K | 5% | 1/4W | |
| R6067 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R6068 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R6069 | 1-215-473-00 | METAL | 150K | 1% | 1/4W | |
| R6070 | 1-249-417-11 | CARBON | 1K | 5% | 1/4W | F |
| R6071 | ⚠1-215-449-81 | METAL | 15K | 1% | 1/4W | |
| R6072 | ⚠1-215-473-81 | METAL | 150K | 1% | 1/4W | |
| R6073 | 1-249-413-11 | CARBON | 470 | 5% | 1/4W | |
| R6075 | 1-216-358-11 | METAL OXIDE | 5.6 | 5% | 1W | F |
| R6076 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R6077 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R6078 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R6081 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R6082 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R6083 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R6084 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R6085 | 1-212-849-00 | FUSIBLE | 4.7 | 5% | 1/4W | F |
| R6086 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | |

<TRANSFORMER>

| | | |
|---|---|---|
| T6002 | ⚠1-424-505-11 | TRANSFORMER, LINE FILTER |
| T6004 | ⚠1-429-808-11 | TRANSFORMER, CONVERTER |
| T6005 | ⚠1-429-807-11 | TRANSFORMER, POWER INSULATED |

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* A-1642-191-A D BOARD, COMPLETE ASSY
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| | |
|---|---|
| 4-382-854-11 | SCREW (M3X10), P, SW (+) |
| 7-682-652-09 | SCREW +PSW 3X16 |

<CAPACITOR>

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1502 | 1-126-943-11 | ELECT | 2200MF | 20% | 25V |
| C1503 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1504 | 1-126-943-11 | ELECT | 2200MF | 20% | 25V |
| C1505 | 1-136-177-00 | FILM | 1MF | 5% | 50V |
| C1506 | 1-102-228-00 | CERAMIC | 470PF | 10% | 500V |
| C1507 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C1508 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1509 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1510 | 1-137-401-11 | FILM | 0.22MF | 10% | 100V |
| C1511 | 1-137-423-11 | FILM | 0.15MF | 10% | 100V |
| C1512 | 1-137-423-11 | FILM | 0.15MF | 10% | 100V |
| C1513 | 1-163-243-11 | CERAMIC CHIP | 47PF | 5% | 50V |
| C1514 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C1515 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C1516 | 1-136-177-00 | FILM | 1MF | 5% | 50V |
| C1517 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C1551 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C1603 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1604 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1605 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1606 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1607 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1608 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1611 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1612 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C1613 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1615 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C1617 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| C1619 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C1620 | 1-126-941-11 | ELECT | 470MF | 20% | 25V |
| C1622 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C1701 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C1702 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1703 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C1704 | 1-163-259-71 | CERAMIC CHIP | 220PF | 5% | 50V |
| C1705 | 1-163-099-00 | CERAMIC CHIP | 18PF | 5% | 50V |
| C1709 | 1-163-031-11 | CERAMIC CHIP | 0.01MF | | 50V |
| C1723 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1724 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1801 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1802 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C1803 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1805 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1806 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| C1807 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1808 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1809 | 1-104-661-91 | ELECT | 330MF | 20% | 16V |
| C1810 | 1-104-661-91 | ELECT | 330MF | 20% | 16V |
| C1811 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1812 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1813 | 1-163-275-11 | CERAMIC CHIP | 1000PF | 5% | 50V |
| C1814 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1816 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1817 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1818 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1819 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C1820 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C1821 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C1822 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C1823 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1824 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1825 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C1826 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C1827 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1828 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1829 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1830 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |

## D

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C1831 | 1-104-661-91 | ELECT | 330MF | 20% | 16V |
| C1832 | 1-104-661-91 | ELECT | 330MF | 20% | 16V |
| C1833 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1834 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1835 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1836 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1837 | 1-164-489-11 | CERAMIC CHIP | 0.22MF | 10% | 16V |
| C1838 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1839 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1840 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1841 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C1842 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1843 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C1844 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C1845 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1846 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1847 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1848 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1849 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1850 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1851 | 1-137-399-11 | FILM | 0.1MF | 5% | 50V |
| C1852 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1853 | 1-137-378-11 | FILM | 0.22MF | 5% | 50V |
| C1854 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C1855 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1856 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C1857 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1858 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1859 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1860 | 1-163-809-11 | CERAMIC CHIP | 0.047MF | 10% | 25V |
| C1861 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C1862 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1863 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C1864 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1865 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C1866 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |

<CHIP CONDUCTOR>

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CJ1 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ2 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ3 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ4 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ5 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ6 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ7 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ8 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ9 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ10 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ11 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ12 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ13 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ14 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ15 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ16 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ17 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ18 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ19 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ20 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ21 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ22 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ23 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ24 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ25 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ26 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ27 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ28 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ29 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ30 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ31 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ32 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ33 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ34 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ35 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ36 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ37 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ38 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ39 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ40 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ42 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ43 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ44 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ45 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ46 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ47 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ48 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ49 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ50 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ51 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ52 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ53 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ54 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ56 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ57 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ58 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ59 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ60 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ62 | 1-216-295-00 | CONDUCTOR, CHIP | |
| CJ63 | 1-216-295-00 | CONDUCTOR, CHIP | |

<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| CN1509 | *1-564-506-11 | PLUG, CONNECTOR 3P | |
| CN1513 | *1-564-506-11 | PLUG, CONNECTOR 3P | |
| CN1612 | *1-564-507-11 | PLUG, CONNECTOR 4P | |
| CN1642 | *1-564-507-11 | PLUG, CONNECTOR 4P | |
| CN1672 | *1-564-507-11 | PLUG, CONNECTOR 4P | |
| CN1716 | *1-564-507-11 | PLUG, CONNECTOR 4P | |
| CN1756 | *1-564-508-11 | PLUG, CONNECTOR 5P | |
| CN1757 | *1-564-515-11 | PLUG, CONNECTOR 12P | |

<DIODE>

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D1501 | 8-719-908-03 | DIODE GP08D | |
| D1502 | 8-719-109-89 | DIODE RD5.6ESB2 | |
| D1503 | 8-719-971-20 | DIODE ERC38-06 | |
| D1505 | 8-719-109-89 | DIODE RD5.6ESB2 | |
| D1551 | 8-719-109-72 | DIODE RD3.9ESB2 | |
| D1552 | 8-719-911-19 | DIODE 1SS119-25 | |
| D1553 | 8-719-911-19 | DIODE 1SS119-25 | |
| D1601 | 8-719-908-03 | DIODE GP08D | |
| D1602 | 8-719-908-03 | DIODE GP08D | |
| D1603 | 8-719-908-03 | DIODE GP08D | |
| D1604 | 8-719-908-03 | DIODE GP08D | |
| D1803 | 8-719-911-19 | DIODE 1SS119-25 | |
| D1812 | 8-719-911-19 | DIODE 1SS119-25 | |
| D1814 | 8-719-911-19 | DIODE 1SS119-25 | |
| D1825 | 8-719-911-19 | DIODE 1SS119-25 | |
| D1826 | 8-719-911-19 | DIODE 1SS119-25 | |
| D1827 | 8-719-109-68 | DIODE RD3.6ESB1 | |
| D1931 | 8-719-110-60 | DIODE RD24ESB | |
| D1932 | 8-719-110-60 | DIODE RD24ESB | |
| D1934 | 8-719-110-60 | DIODE RD24ESB | |
| D1935 | 8-719-110-60 | DIODE RD24ESB | |
| D1936 | 8-719-110-60 | DIODE RD24ESB | |
| D1937 | 8-719-110-60 | DIODE RD24ESB | |
| D1942 | 8-719-110-60 | DIODE RD24ESB | |
| D1945 | 8-719-110-60 | DIODE RD24ESB | |

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D1946 | 8-719-110-60 | DIODE RD24ESB | |
| D1947 | 8-719-110-60 | DIODE RD24ESB | |
| D1948 | 8-719-110-36 | DIODE RD13ESB2 | |
| D1949 | 8-719-110-60 | DIODE RD24ESB | |
| D1951 | 8-719-110-36 | DIODE RD13ESB2 | |
| D1953 | 8-719-110-36 | DIODE RD13ESB2 | |
| D1954 | 8-719-110-36 | DIODE RD13ESB2 | |

<FUSE>

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| F1601 | ⚠ 1-532-745-11 | FUSE, GLASS TUBE 3.15A/125V | |
| | 1-533-223-11 | CLIP, FUSE ; F1601 | |
| F1602 | ⚠ 1-532-745-11 | FUSE, GLASS TUBE 3.15A/125V | |
| | 1-533-223-11 | CLIP, FUSE ; F1602 | |

<IC>

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| IC1501 | 8-759-192-71 | IC STV9379 | |
| IC1601 | 8-749-010-88 | IC STK392-010 | |
| IC1602 | 8-749-010-88 | IC STK392-010 | |
| IC1701 | 8-752-861-57 | IC CXP85112B-613S | |
| IC1702 | 8-759-041-54 | IC MN1382S | |
| IC1801 | 8-759-327-52 | IC PM0002B | |
| IC1802 | 8-759-327-51 | IC PA0053B | |
| IC1803 | 8-759-012-67 | IC MC7905CT | |
| IC1804 | 8-759-231-53 | IC TA7805S | |
| IC1805 | 8-759-327-52 | IC PM0002B | |
| IC1806 | 8-759-327-51 | IC PA0053B | |
| IC1807 | 8-759-929-65 | IC LM7912CT | |
| IC1808 | 8-759-231-58 | IC TA7812S | |
| IC1809 | 8-759-327-52 | IC PM0002B | |
| IC1931 | 8-759-711-28 | IC NJM2058D | |
| IC1932 | 8-759-711-28 | IC NJM2058D | |

<COIL>

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| L1501 | 1-412-533-21 | INDUCTOR 47UH | |
| L1502 | 1-412-533-21 | INDUCTOR 47UH | |
| L1503 | 1-412-524-11 | INDUCTOR 8.2UH | |
| L1515 | 1-410-470-11 | INDUCTOR 10UH | |
| L1516 | 1-410-482-31 | INDUCTOR 100UH | |
| L1701 | 1-410-470-11 | INDUCTOR 10UH | |
| L1801 | 1-406-975-21 | COIL, CHOKE 47UH | |
| L1802 | 1-406-975-21 | COIL, CHOKE 47UH | |

<TRANSISTOR>

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| Q1501 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q1502 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q1551 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q1552 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q1701 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q1801 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q1802 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q1803 | 8-729-029-86 | TRANSISTOR DTC124ESA | |
| Q1804 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q1805 | 8-729-029-86 | TRANSISTOR DTC124ESA | |

<RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R1501 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1502 | 1-208-812-11 | METAL CHIP | 18K | 0.50% | 1/10W | |
| R1503 | 1-215-423-00 | METAL | 1.2K | 1% | 1/4W | |
| R1504 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1505 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R1506 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1507 | 1-208-814-11 | METAL CHIP | 22K | 0.50% | 1/10W | |
| R1508 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1509 | 1-249-383-11 | CARBON | 1.5 | 5% | 1/4W | F |
| R1510 | 1-214-661-21 | METAL | 1.5 | 1% | 1/4W | |
| R1512 | 1-215-912-11 | METAL OXIDE | 150 | 5% | 3W | F |
| R1514 | 1-216-635-11 | METAL CHIP | 220 | 0.50% | 1/10W | |
| R1515 | 1-216-645-11 | METAL CHIP | 560 | 0.50% | 1/10W | |
| R1516 | 1-214-661-21 | METAL | 1.5 | 1% | 1/4W | |
| R1517 | 1-216-647-11 | METAL CHIP | 680 | 0.50% | 1/10W | |
| R1518 | 1-216-661-11 | METAL CHIP | 2.7K | 0.50% | 1/10W | |
| R1519 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R1520 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R1521 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1522 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1523 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1551 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1552 | 1-216-063-91 | METAL GLAZE | 3.9K | 5% | 1/10W | |
| R1553 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R1554 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1559 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1562 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1603 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W | |
| R1604 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W | |
| R1605 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W | |
| R1606 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W | |
| R1607 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W | |
| R1608 | 1-216-663-11 | METAL CHIP | 3.3K | 0.50% | 1/10W | |
| R1610 | 1-214-729-00 | METAL | 1K | 1% | 1/4W | |
| R1612 | 1-214-729-00 | METAL | 1K | 1% | 1/4W | |
| R1613 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1615 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1616 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1618 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1619 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1620 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1621 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1622 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1623 | 1-214-729-00 | METAL | 1K | 1% | 1/4W | |
| R1624 | 1-214-729-00 | METAL | 1K | 1% | 1/4W | |
| R1625 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1626 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1627 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1628 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1629 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1630 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1631 | 1-214-729-00 | METAL | 1K | 1% | 1/4W | |
| R1632 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1633 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1634 | 1-214-729-00 | METAL | 1K | 1% | 1/4W | |
| R1635 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1636 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1637 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1638 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1639 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1640 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1641 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1642 | 1-214-673-00 | METAL | 4.7 | 1% | 1/4W | |
| R1717 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1721 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1737 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1740 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1748 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1749 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R1751 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1752 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1753 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1760 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R1788 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1801 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1802 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1804 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R1806 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1807 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |

**D**

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK | |
|---|---|---|---|---|---|---|
| R1808 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1809 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1810 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1811 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1812 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1813 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1815 | 1-218-762-11 | METAL CHIP | 270K | 0.50% | 1/10W | |
| R1816 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1817 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1818 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1819 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1820 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1821 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1824 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1825 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1826 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1827 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1828 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1829 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1830 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1831 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1832 | 1-216-677-11 | METAL CHIP | 12K | 0.50% | 1/10W | |
| R1833 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1834 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1835 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1836 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R1837 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1838 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | |
| R1839 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R1840 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1841 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1842 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1843 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | |
| R1844 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1845 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R1846 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R1847 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1848 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R1849 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R1850 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1851 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R1852 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1853 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1854 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1855 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1856 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1857 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1858 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1859 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1860 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1861 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W | F |
| R1862 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W | F |
| R1863 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1864 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1865 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W | F |
| R1866 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W | F |
| R1866 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W | F |
| R1867 | 1-218-761-11 | METAL CHIP | 240K | 0.50% | 1/10W | |
| R1868 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1869 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1870 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1871 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1872 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1873 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1874 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1875 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1876 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1877 | 1-216-695-11 | METAL CHIP | 68K | 0.50% | 1/10W | |
| R1878 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1879 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1880 | 1-218-768-11 | METAL CHIP | 470K | 0.50% | 1/10W | |
| R1881 | 1-216-295-00 | CONDUCTOR, CHIP | | | | |
| R1883 | 1-216-677-11 | METAL CHIP | 12K | 0.50% | 1/10W | |
| R1884 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1885 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1886 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R1887 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1888 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | |
| R1889 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | |
| R1890 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R1891 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1892 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W | |
| R1893 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1894 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R1895 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R1896 | 1-249-389-11 | CARBON | 4.7 | 5% | 1/4W | F |
| R1897 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1898 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R1899 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1900 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R1901 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1902 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1903 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1904 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1905 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R1906 | 1-218-764-11 | METAL CHIP | 330K | 0.50% | 1/10W | |
| R1908 | 1-208-812-11 | METAL CHIP | 18K | 0.50% | 1/10W | |
| R1909 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1910 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1911 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1912 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1913 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1914 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1915 | 1-216-685-11 | METAL CHIP | 27K | 0.50% | 1/10W | |
| R1916 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R1917 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1918 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | |
| R1919 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1920 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | |
| R1923 | 1-216-677-11 | METAL CHIP | 12K | 0.50% | 1/10W | |
| R1925 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W | |
| R1926 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1927 | 1-216-125-00 | METAL GLAZE | 1.5M | 5% | 1/10W | |
| R1928 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1931 | 1-216-689-11 | METAL CHIP | 39K | 0.50% | 1/10W | |
| R1935 | 1-218-766-11 | METAL CHIP | 390K | 0.50% | 1/10W | |
| R1937 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1938 | 1-208-810-11 | METAL CHIP | 15K | 0.50% | 1/10W | |
| R1940 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1941 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1942 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1944 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1947 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1948 | 1-216-093-00 | METAL GLAZE | 68K | 5% | 1/10W | |
| R1949 | 1-216-659-11 | METAL CHIP | 2.2K | 0.50% | 1/10W | |
| R1950 | 1-216-659-11 | METAL CHIP | 2.2K | 0.50% | 1/10W | |
| R1951 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1952 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1954 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1955 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1956 | 1-208-800-11 | METAL CHIP | 5.6K | 0.50% | 1/10W | |
| R1957 | 1-208-824-11 | METAL CHIP | 56K | 0.50% | 1/10W | |
| R1958 | 1-208-800-11 | METAL CHIP | 5.6K | 0.50% | 1/10W | |
| R1959 | 1-216-699-11 | METAL CHIP | 100K | 0.50% | 1/10W | |
| R1960 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R1961 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK | |
|---|---|---|---|---|---|---|
| R1962 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R1963 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1964 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R1965 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1966 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R1967 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1/10W | |
| R1970 | 1-216-637-11 | METAL CHIP | 270 | 0.50% | 1/10W | |
| R1971 | 1-216-687-11 | METAL CHIP | 33K | 0.50% | 1/10W | |
| R1972 | 1-208-854-11 | METAL CHIP | 1M | 0.50% | 1/10W | |
| R1981 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W | F |
| R1981 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W | F |
| R1982 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W | F |
| R1982 | 1-216-473-11 | METAL OXIDE | 56 | 5% | 3W | F |
| R1983 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R1984 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R1985 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |

<THERMISTOR>

| | | |
|---|---|---|
| TH1801 | 1-808-269-11 | THERMISTOR |

<CRYSTAL>

| | | |
|---|---|---|
| X1701 | 1-579-917-11 | VIBRATOR, CRYSTAL |

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* A-1642-192-A E BOARD, COMPLETE
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| | |
|---|---|
| 4-382-854-11 | SCREW (M3X10), P, SW (+) |
| 7-322-065-19 | RUBBER, SILICON RTV (KE490W) |

<CAPACITOR>

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C801 | 1-110-626-11 | ELECT | 330MF | 20% | 160V |
| C802 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C803 | 1-110-626-11 | ELECT | 330MF | 20% | 160V |
| C805 | 1-136-173-00 | FILM | 0.47MF | 5% | 50V |
| C806 | 1-102-030-00 | CERAMIC | 330PF | 10% | 500V |
| C807 | 1-106-363-00 | MYLAR | 0.0068MF | | 200V |
| C808 | 1-107-636-11 | ELECT | 10MF | 20% | 160V |
| C809 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C810 | 1-130-481-00 | FILM | 0.0068MF | 5% | 50V |
| C811 | 1-137-475-11 | FILM | 2.2MF | 10% | 250V |
| C812 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C814 | 1-126-968-11 | ELECT | 100MF | 20% | 50V |
| C815 | 1-162-114-00 | CERAMIC | 0.0047MF | | 2KV |
| C818 | ⚠ 1-109-833-11 | FILM | 0.0145MF | 3% | 2.5KV |
| C819 | 1-130-489-00 | FILM | 0.033MF | 5% | 50V |
| C820 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C823 | 1-136-601-11 | FILM | 0.01MF | 5% | 630V |
| C824 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C825 | 1-162-318-11 | CERAMIC | 0.001MF | 10% | 500V |
| C826 | 1-130-467-00 | FILM | 470PF | 5% | 50V |
| C828 | 1-111-036-11 | ELECT | 470MF | 20% | 16V |
| C830 | 1-137-420-11 | FILM | 0.047MF | 10% | 100V |
| C831 | 1-126-934-11 | ELECT | 220MF | 20% | 16V |
| C832 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C901 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C902 | 1-137-370-11 | FILM | 0.01MF | 5% | 50V |
| C903 | 1-137-431-11 | FILM | 560PF | 5% | 50V |
| C904 | 1-137-358-11 | FILM | 0.0001MF | 5% | 50V |
| C905 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C906 | 1-137-370-11 | FILM | 0.01MF | 5% | 50V |
| C907 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C908 | 1-137-361-11 | FILM | 330PF | 5% | 50V |
| C909 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C911 | 1-163-251-11 | CERAMIC CHIP | 100PF | 5% | 50V |
| C912 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C913 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C915 | 1-163-239-11 | CERAMIC CHIP | 33PF | 5% | 50V |
| C916 | 1-126-963-11 | ELECT | 4.7MF | 20% | 50V |
| C917 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C918 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C919 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C920 | 1-124-902-00 | ELECT | 0.47MF | 20% | 50V |
| C921 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C923 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C924 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C925 | 1-137-372-11 | FILM | 0.022MF | 5% | 50V |
| C926 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C927 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C929 | 1-137-416-11 | FILM | 0.01MF | 10% | 100V |
| C930 | 1-137-364-11 | FILM | 0.001MF | 5% | 50V |
| C931 | 1-126-967-11 | ELECT | 47MF | 20% | 50V |
| C932 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C934 | 1-137-370-11 | FILM | 0.01MF | 5% | 50V |
| C935 | 1-137-399-11 | FILM | 0.1MF | 10% | 100V |
| C936 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C937 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C938 | 1-126-935-11 | ELECT | 470MF | 20% | 16V |
| C939 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C940 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C941 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C942 | 1-104-664-11 | ELECT | 47MF | 20% | 25V |
| C943 | 1-126-965-11 | ELECT | 22MF | 20% | 50V |
| C944 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C945 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C946 | 1-124-925-11 | ELECT | 2.2MF | 20% | 50V |
| C947 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C948 | 1-104-665-11 | ELECT | 100MF | 20% | 25V |
| C949 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C950 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C951 | 1-109-889-11 | ELECT | 1MF | 20% | 50V |
| C955 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C980 | 1-137-368-11 | FILM | 0.0047MF | 5% | 50V |

<CHIP CONDUCTOR>

| | | |
|---|---|---|
| CJ901 | 1-216-295-00 | CONDUCTOR, CHIP |
| CJ902 | 1-216-295-00 | CONDUCTOR, CHIP |
| CJ903 | 1-216-295-00 | CONDUCTOR, CHIP |
| CJ904 | 1-216-295-00 | CONDUCTOR, CHIP |

<CONNECTOR>

| | | |
|---|---|---|
| CN802 | * 1-564-510-11 | PLUG, CONNECTOR 7P |
| CN805 | 1-695-915-11 | TAB (CONTACT) |
| CN827 | * 1-573-963-11 | PIN, CONNECTOR (PC BOARD) 3P |
| CN851 | * 1-564-509-11 | PLUG, CONNECTOR 6P |
| CN881 | * 1-573-986-11 | PIN, CONNECTOR (PC BOARD) 5P |
| CN882 | * 1-691-135-11 | PIN, CONNECTOR (PC BOARD) 4P |
| CN884 | * 1-573-964-11 | PIN, CONNECTOR (PC BOARD) 6P |
| CN885 | * 1-506-371-00 | PIN, CONNECTOR 2P |
| CN886 | * 1-506-371-00 | PIN, CONNECTOR 2P |
| CN904 | * 1-564-507-11 | PLUG, CONNECTOR 4P |

<DIODE>

| | | |
|---|---|---|
| D801 | 8-719-109-85 | DIODE RD5.1ESB2 |
| D802 | 8-719-404-46 | DIODE MA110 |
| D803 | 8-719-971-20 | DIODE ERC38-06 |
| D804 | 8-719-908-03 | DIODE GP08D |
| D805 | ⚠ 8-719-979-40 | DIODE ERC06-15STP11 |
| D806 | 8-719-911-19 | DIODE 1SS119-25 |
| D807 | ⚠ 8-719-979-40 | DIODE ERC06-15STP11 |

**E**

- The components identified by ☒ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D808 | 8-719-500-71 | DIODE D8LC40 | |
| D809 | 8-719-911-19 | DIODE 1SS119-25 | |
| D810 | 8-719-945-80 | DIODE ERC06-15S | |
| D812 | 8-719-404-46 | DIODE MA110 | |
| D814 | 8-719-920-67 | DIODE ERC91-02 | |
| D816 | 8-719-404-46 | DIODE MA110 | |
| D817 | 8-719-404-46 | DIODE MA110 | |
| D818 | 8-719-404-46 | DIODE MA110 | |
| D819 | 8-719-105-82 | DIODE RD5.1M-B2 | |
| D901 | 8-719-404-46 | DIODE MA110 | |
| D902 | 8-719-404-46 | DIODE MA110 | |
| D904 | 8-719-404-46 | DIODE MA110 | |
| D905 | 8-719-404-46 | DIODE MA110 | |
| D907 | 8-719-404-46 | DIODE MA110 | |
| D908 | 8-719-105-82 | DIODE RD5.1M-B2 | |
| D909 | 8-719-302-43 | DIODE EL1Z | |
| D910 | 8-719-911-19 | DIODE 1SS119-25 | |
| D911 | 8-719-105-82 | DIODE RD5.1M-B2 | |
| D912 | 8-719-105-82 | DIODE RD5.1M-B2 | |
| D913 | 8-719-404-46 | DIODE MA110 | |
| D914 | 8-719-404-46 | DIODE MA110 | |
| D915 | 8-719-404-46 | DIODE MA110 | |
| D916 | 8-719-105-57 | DIODE RD3.9M-B1 | |
| D917 | 8-719-404-46 | DIODE MA110 | |
| D918 | 8-719-404-46 | DIODE MA110 | |
| D919 | 8-719-106-81 | DIODE RD13M-B3 | |
| D920 | 8-759-157-40 | IC uPC574J | |
| D921 | 8-719-106-81 | DIODE RD13M-B3 | |
| D922 | 8-719-404-46 | DIODE MA110 | |
| D923 | 8-719-404-46 | DIODE MA110 | |
| D924 | 8-719-404-46 | DIODE MA110 | |
| D925 | 8-719-028-00 | DIODE MA3033-L | |
| D926 | 8-719-404-46 | DIODE MA110 | |
| D927 | 8-719-401-32 | DIODE MA3047M-TX | |
| | | <FERRITE BEAD> | |
| FB001 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH | |
| | | <IC> | |
| IC901 | 8-759-133-90 | IC uPC339C | |
| IC902 | 8-759-133-90 | IC uPC339C | |
| IC903 | 8-759-711-28 | IC NJM2058D | |
| IC904 | 8-759-634-51 | IC M5218AP | |
| IC905 | 8-759-929-65 | IC LM7912CT | |
| IC906 | 8-759-231-58 | IC TA7812S | |
| | | <COIL> | |
| L801 | 1-406-665-11 | COIL, CHOKE 100UH | |
| L802 | 1-406-665-11 | COIL, CHOKE 100UH | |
| L803 | 1-422-613-11 | COIL, AIR CORE | |
| L804 | 1-411-286-11 | COIL, CHOKE 220UH | |
| L901 | 1-408-416-00 | INDUCTOR 39UH | |
| L902 | 1-408-416-00 | INDUCTOR 39UH | |
| | | <NEON LAMP> | |
| NL802 | 1-519-108-99 | LAMP, NEON | |
| | | <TRANSISTOR> | |
| Q801 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | |
| Q802 | 8-729-119-80 | TRANSISTOR 2SC2688-LK | |
| Q803 | 8-729-122-12 | TRANSISTOR 2SA1221-L | |
| Q806 | ⚠ 8-729-805-07 | TRANSISTOR 2SD1887-CA | |
| Q807 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| Q808 | 8-729-024-30 | TRANSISTOR IRFI640LF | |
| Q809 | 8-729-823-81 | TRANSISTOR 2SC4632LS-CB7 | |
| Q810 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| Q811 | 8-729-823-81 | TRANSISTOR 2SC4632LS-CB7 | |
| Q813 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q901 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q902 | 8-729-140-93 | TRANSISTOR 2SB733-34 | |
| Q903 | 8-729-140-96 | TRANSISTOR 2SD774-34 | |
| Q904 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q905 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q906 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q907 | 8-729-231-55 | TRANSISTOR 2SC2878-AB | |
| Q908 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q909 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q910 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q911 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q912 | 8-729-216-22 | TRANSISTOR 2SA1162-G | |
| Q913 | 8-729-029-86 | TRANSISTOR DTC124ESA | |
| Q914 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |
| Q915 | 8-729-422-27 | TRANSISTOR 2SD601A-Q | |

<RESISTOR>

| REF. NO. | PART NO. | DESCRIPTION | | | | REMARK |
|---|---|---|---|---|---|---|
| R800 | 1-216-637-11 | METAL CHIP | 270 | 0.50% | 1/10W | |
| R801 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R802 | 1-249-421-11 | CARBON | 2.2K | 5% | 1/4W | |
| R804 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/4W | F |
| R805 | 1-216-435-21 | METAL OXIDE | 2.7K | 5% | 1W | F |
| R806 | 1-249-431-81 | CARBON | 15K | 5% | 1/4W | F |
| R807 | 1-260-325-11 | CARBON | 560 | 5% | 1/2W | |
| ☒R808 | ⚠ | CARBON | | | 1/4W | |
| ☒R809 | ⚠ | CARBON | | | 1/4W | |
| R810 | 1-249-427-11 | CARBON | 6.8K | 5% | 1/4W | F |
| R811 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R812 | 1-216-395-00 | METAL OXIDE | 3.3 | 5% | 3W | F |
| R813 | 1-216-484-00 | METAL OXIDE | 3.9K | 5% | 3W | F |
| R814 | 1-215-919-11 | METAL OXIDE | 2.2K | 5% | 3W | F |
| R816 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R817 | 1-216-395-00 | METAL OXIDE | 3.3 | 5% | 3W | F |
| R818 | 1-249-405-11 | CARBON | 100 | 5% | 1/4W | F |
| R819 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R820 | 1-215-905-11 | METAL OXIDE | 10 | 5% | 3W | F |
| R821 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R822 | 1-215-928-11 | METAL OXIDE | 68K | 5% | 3W | F |
| R823 | 1-216-047-91 | METAL GLAZE | 820 | 5% | 1/10W | |
| R825 | 1-215-928-11 | METAL OXIDE | 68K | 5% | 3W | F |
| R826 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W | |
| R830 | 1-215-928-11 | METAL OXIDE | 68K | 5% | 3W | F |
| R831 | 1-215-919-11 | METAL OXIDE | 2.2K | 5% | 3W | F |
| R832 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R835 | 1-249-474-11 | CARBON | 1 | 5% | 1/2W | F |
| R836 | 1-202-818-00 | SOLID | 1K | 20% | 1/2W | |
| R837 | 1-215-870-11 | METAL OXIDE | 1.5K | 5% | 1W | F |
| R838 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R839 | 1-249-429-11 | CARBON | 10K | 5% | 1/4W | F |
| R843 | 1-202-549-00 | SOLID | 100 | 20% | 1/2W | |
| R846 | 1-202-838-00 | SOLID | 100K | 20% | 1/2W | |
| R847 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R849 | 1-249-433-11 | CARBON | 22K | 5% | 1/4W | |
| R850 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R851 | 1-216-667-11 | METAL CHIP | 4.7K | 0.50% | 1/10W | |
| R852 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R854 | 1-249-447-11 | CARBON | 1 | 5% | 1/4W | F |
| R855 | 1-208-822-11 | METAL CHIP | 47K | 0.50% | 1/10W | |
| R856 | 1-208-822-11 | METAL CHIP | 47K | 0.50% | 1/10W | |
| R857 | 1-218-755-11 | METAL CHIP | 130K | 0.50% | 1/10W | |
| R858 | 1-216-676-11 | METAL CHIP | 11K | 0.50% | 1/10W | |
| R859 | 1-249-381-11 | CARBON | 1 | 5% | 1/4W | F |
| R883 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |

**E** **U**

The componants identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- The components identified by ⧓ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK | |
|---|---|---|---|---|---|---|
| R888 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R901 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R902 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R903 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R904 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R905 | 1-247-739-11 | CARBON | 100 | 5% | 1/2W | F |
| R906 | 1-247-739-11 | CARBON | 100 | 5% | 1/2W | F |
| R907 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R908 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R909 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R910 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R911 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R912 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R913 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R914 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R915 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R916 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R917 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R918 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R919 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R920 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W | |
| R921 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R922 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R923 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R924 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R926 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R927 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R928 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W | |
| R929 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R930 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R931 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R932 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| R933 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R934 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1/10W | |
| R935 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R936 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R937 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R938 | 1-208-810-11 | METAL CHIP | 15K | 0.50% | 1/10W | |
| R939 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R940 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R941 | 1-216-091-00 | METAL GLAZE | 56K | 5% | 1/10W | |
| R942 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R943 | 1-249-377-11 | CARBON | 0.47 | 5% | 1/4W | F |
| R944 | 1-216-689-11 | METAL GLAZE | 39K | 5% | 1/10W | |
| R945 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R946 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R947 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R948 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |
| R950 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R952 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R954 | 1-214-777-00 | METAL | 100K | 1% | 1/4W | |
| R955 | 1-214-769-00 | METAL | 47K | 1% | 1/4W | |
| R956 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R957 | 1-218-854-11 | METAL CHIP | 2K | 0.50% | 1/16W | |
| R958 | 1-218-856-11 | METAL CHIP | 2.4K | 0.50% | 1/16W | |
| R959 | 1-214-757-00 | METAL | 15K | 1% | 1/4W | |
| R960 | 1-216-077-00 | METAL GLAZE | 15K | 5% | 1/10W | |
| R962 | 1-208-806-11 | METAL CHIP | 10K | 0.50% | 1/10W | |
| R963 | 1-214-749-00 | METAL | 6.8K | 1% | 1/4W | |
| R964 | 1-214-757-00 | METAL | 15K | 1% | 1/4W | |
| R965 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W | |
| R966 | 1-214-757-00 | METAL | 15K | 1% | 1/4W | |
| R967 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W | |
| R968 | 1-214-751-00 | METAL | 8.2K | 1% | 1/4W | |
| R969 | 1-215-423-00 | METAL | 1.2K | 1% | 1/4W | |
| R970 | 1-214-757-00 | METAL | 15K | 1% | 1/4W | |
| R971 | 1-208-845-11 | METAL GLAZE | 1M | 5% | 1/10W | |
| R972 | 1-216-699-11 | METAL CHIP | 100K | 0.50% | 1/10W | |
| R973 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK | |
|---|---|---|---|---|---|---|
| R974 | 1-216-699-11 | METAL CHIP | 100K | 0.50% | 1/10W | |
| R975 | 1-216-043-91 | METAL GLAZE | 560 | 5% | 1/10W | |
| R976 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W | |
| R977 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R978 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W | |
| R979 | 1-216-075-00 | METAL GLAZE | 12K | 5% | 1/10W | |
| R980 | 1-216-081-00 | METAL GLAZE | 22K | 5% | 1/10W | |
| R981 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R982 | 1-216-671-11 | METAL CHIP | 6.8K | 0.50% | 1/10W | |
| ⧓R983 | ⚠ | METAL | | | 1/4W | |
| R984 | 1-216-083-00 | METAL GLAZE | 27K | 5% | 1/10W | |
| R985 | 1-208-812-11 | METAL CHIP | 18K | 0.50% | 1/10W | |
| R986 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | |
| R987 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W | |
| ⧓R988 | ⚠ | METAL | | | 1/4W | |
| R989 | 1-216-462-00 | METAL OXIDE | 8.2K | 5% | 2W | F |
| R990 | 1-215-897-11 | METAL OXIDE | 6.8K | 5% | 2W | F |
| R991 | 1-208-803-11 | METAL CHIP | 7.5K | 0.50% | 1/10W | |
| R992 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R993 | 1-249-431-11 | CARBON | 15K | 5% | 1/4W | |
| R994 | 1-247-807-31 | CARBON | 100 | 5% | 1/4W | |
| R995 | 1-216-677-11 | METAL CHIP | 12K | 0.50% | 1/10W | |
| R996 | 1-208-814-11 | METAL CHIP | 22K | 0.50% | 1/10W | |
| R997 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W | |
| R998 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1/10W | |
| R999 | 1-216-051-00 | METAL GLAZE | 1.2K | 5% | 1/10W | |

<SPARK GAP>

| | | |
|---|---|---|
| SG801 | 1-519-422-11 | GAP, SPARK |

<TRANSFORMER>

| | | |
|---|---|---|
| T801 | ⚠ 1-453-189-11 | TRANSFORMER ASSY, FLYBACK NX-2631//A4S |
| T802 | 1-437-209-11 | TRANSFORMER, HORIZONTAL DRIVE |
| T803 | ⚠ 1-427-980-11 | TRANSFORMER, FERRITE (LOT) |

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* A-1647-003-A U BOARD, COMPLETE

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<CAPACITOR>

| | | | | | |
|---|---|---|---|---|---|
| C2001 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2002 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2003 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2004 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2005 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2006 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2007 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2008 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2009 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2010 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2011 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2012 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2013 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2014 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2015 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 16V |
| C2016 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2017 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2018 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2019 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2020 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2021 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2022 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2023 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |

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| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| C2024 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2025 | 1-164-005-11 | CERAMIC CHIP | 0.47MF | | 16V |
| C2026 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2027 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2028 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2029 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2030 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2031 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C2032 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2033 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2034 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2035 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2036 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2037 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2038 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2039 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2040 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2041 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2042 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2043 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2044 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2045 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2046 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2047 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2048 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2049 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2050 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2051 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C2052 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2053 | 1-124-903-11 | ELECT | 1MF | 20% | 50V |
| C2054 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2055 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2056 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2057 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2058 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2059 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2060 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2061 | 1-126-933-11 | ELECT | 100MF | 20% | 16V |
| C2062 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2063 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2064 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2065 | 1-126-964-11 | ELECT | 10MF | 20% | 50V |
| C2066 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2067 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2068 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |
| C2069 | 1-126-967-11 | ELECT | 47MF | 20% | 16V |
| C2070 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2071 | 1-163-005-11 | CERAMIC CHIP | 470PF | 10% | 50V |
| C2072 | 1-163-037-71 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C2073 | 1-163-037-71 | CERAMIC CHIP | 0.022MF | 10% | 50V |
| C2074 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C2075 | 1-102-125-00 | CERAMIC | 0.0047MF | 10% | 50V |
| C2076 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C2077 | 1-163-009-11 | CERAMIC CHIP | 0.001MF | 10% | 50V |
| C2078 | 1-164-232-11 | CERAMIC CHIP | 0.01MF | 10% | 50V |

<CONNECTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| CN2001 | 1-695-549-11 | SOCKET, PIN 21P |
| CN2002 | 1-695-549-11 | SOCKET, PIN 21P |
| CN2003 | * 1-564-526-11 | PLUG, CONNECTOR 11P |
| CN2004 | 1-695-549-11 | SOCKET, PIN 21P |
| CN2006 | * 1-564-519-11 | PLUG, CONNECTOR 4P |
| CN2008 | * 1-564-519-11 | PLUG, CONNECTOR 4P |
| CN2009 | * 1-564-518-11 | PLUG, CONNECTOR 3P |
| CN2010 | * 1-566-641-11 | CONNECTOR, HINGE (TAB) 18P |
| CN2011 | * 1-566-641-11 | CONNECTOR, HINGE (TAB) 18P |

<DIODE>

| REF. NO. | PART NO. | DESCRIPTION | REMARK |
|---|---|---|---|
| D2001 | 8-719-400-75 | DIODE MA3091 | |
| D2002 | 8-719-400-75 | DIODE MA3091 | |
| D2003 | 8-719-400-75 | DIODE MA3091 | |
| D2004 | 8-719-400-75 | DIODE MA3091 | |
| D2005 | 8-719-400-75 | DIODE MA3091 | |
| D2006 | 8-719-400-75 | DIODE MA3091 | |
| D2007 | 8-719-400-75 | DIODE MA3091 | |
| D2008 | 8-719-400-75 | DIODE MA3091 | |
| D2009 | 8-719-400-75 | DIODE MA3091 | |
| D2010 | 8-719-400-75 | DIODE MA3091 | |
| D2011 | 8-719-400-75 | DIODE MA3091 | |
| D2012 | 8-719-400-75 | DIODE MA3091 | |
| D2013 | 8-719-400-75 | DIODE MA3091 | |
| D2014 | 8-719-400-75 | DIODE MA3091 | |
| D2015 | 8-719-400-75 | DIODE MA3091 | |
| D2016 | 8-719-400-75 | DIODE MA3091 | |
| D2017 | 8-719-400-75 | DIODE MA3091 | |
| D2018 | 8-719-400-75 | DIODE MA3091 | |
| D2019 | 8-719-400-75 | DIODE MA3091 | |
| D2020 | 8-719-400-75 | DIODE MA3091 | |
| D2021 | 8-719-400-75 | DIODE MA3091 | |
| D2022 | 8-719-400-75 | DIODE MA3091 | |
| D2023 | 8-719-400-75 | DIODE MA3091 | |
| D2024 | 8-719-400-75 | DIODE MA3091 | |
| D2025 | 8-719-400-75 | DIODE MA3091 | |
| D2026 | 8-719-400-75 | DIODE MA3091 | |
| D2027 | 8-719-400-75 | DIODE MA3091 | |
| D2028 | 8-719-400-75 | DIODE MA3091 | |
| D2029 | 8-719-914-43 | DIODE DAN202K | |
| D2030 | 8-719-400-75 | DIODE MA3091 | |
| D2031 | 8-719-400-75 | DIODE MA3091 | |
| D2032 | 8-719-400-75 | DIODE MA3091 | |
| D2033 | 8-719-400-75 | DIODE MA3091 | |
| D2034 | 8-719-914-43 | DIODE DAN202K | |
| D2035 | 8-719-400-75 | DIODE MA3091 | |
| D2036 | 8-719-400-75 | DIODE MA3091 | |
| D2037 | 8-719-400-75 | DIODE MA3091 | |
| D2038 | 8-719-400-75 | DIODE MA3091 | |
| D2039 | 8-719-403-00 | DIODE MA3240-TX | |
| D2040 | 8-719-403-00 | DIODE MA3240-TX | |
| D2041 | 8-719-403-00 | DIODE MA3240-TX | |
| D2042 | 8-719-403-00 | DIODE MA3240-TX | |
| D2043 | 8-719-403-00 | DIODE MA3240-TX | |
| D2044 | 8-719-403-00 | DIODE MA3240-TX | |

<FERRITE BEAD>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| FB2001 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH |
| FB2002 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH |
| FB2003 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH |
| FB2004 | 1-410-396-41 | FERRITE BEAD INDUCTOR 0.45UH |

<IC>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| IC2001 | 8-759-073-00 | IC TEA2114 |
| IC2002 | 8-752-068-46 | IC CXA1855S |

<JACK>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| J2001 | 1-695-296-11 | TERMINAL BLOCK, S |
| J2002 | 1-695-296-11 | TERMINAL BLOCK, S |
| J2003 | 1-695-296-11 | TERMINAL BLOCK, S |
| J2004 | 1-565-838-11 | JACK BLOCK, PIN 2P |

<CHIP CONDUCTOR>

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| JR2001 | 1-216-295-00 | CONDUCTOR, CHIP |

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| | | <COIL> | | | |
| L2001 | 1-410-663-31 | INDUCTOR 10UH | | | |
| L2002 | 1-408-409-00 | INDUCTOR 10UH | | | |
| L2003 | 1-408-409-00 | INDUCTOR 10UH | | | |
| L2004 | 1-402-711-11 | INDUCTOR, WIDEBAND | | | |
| L2005 | 1-402-711-11 | INDUCTOR, WIDEBAND | | | |
| L2006 | 1-402-711-11 | INDUCTOR, WIDEBAND | | | |
| L2007 | 1-402-711-11 | INDUCTOR, WIDEBAND | | | |
| L2008 | 1-408-409-00 | INDUCTOR 10UH | | | |
| | | <TRANSISTOR> | | | |
| Q2001 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q2002 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2003 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q2004 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2005 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2006 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| Q2007 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2008 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2009 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2010 | 8-729-216-22 | TRANSISTOR 2SA1162-G | | | |
| Q2011 | 8-729-120-28 | TRANSISTOR 2SC1623-L5L6 | | | |
| | | <RESISTOR> | | | |
| R2001 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2002 | 1-216-674-11 | METAL CHIP | 9.1K | 0.50% | 1/10W |
| R2003 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2004 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R2005 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2006 | 1-216-170-00 | METAL GLAZE | 68 | 5% | 1/8W |
| R2007 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2008 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2009 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2010 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2011 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2012 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2013 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2014 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R2015 | 1-216-170-00 | METAL GLAZE | 68 | 5% | 1/8W |
| R2016 | 1-216-674-11 | METAL CHIP | 9.1K | 0.50% | 1/10W |
| R2017 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2018 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2019 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2020 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2021 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2022 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2023 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2024 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2025 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2026 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2027 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R2028 | 1-216-067-00 | METAL GLAZE | 5.6K | 5% | 1/10W |
| R2029 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2030 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2031 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2032 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2033 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2034 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2035 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2036 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2037 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2038 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2039 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2040 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2041 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2042 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2043 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2044 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2045 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2046 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2047 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2048 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2049 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2050 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2051 | 1-216-079-00 | METAL GLAZE | 18K | 5% | 1/10W |
| R2052 | 1-216-170-00 | METAL GLAZE | 68 | 5% | 1/8W |
| R2053 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R2054 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R2055 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2056 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2057 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2058 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2059 | 1-216-674-11 | METAL CHIP | 9.1K | 0.50% | 1/10W |
| R2060 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2061 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2062 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2063 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2065 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2066 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2067 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2068 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2069 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2070 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2071 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2072 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2073 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2074 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2075 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W |
| R2076 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1/10W |
| R2077 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2078 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2079 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2080 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2081 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2082 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2083 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2084 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2085 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2086 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R2087 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R2088 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2089 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1/10W |
| R2090 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R2091 | 1-216-170-00 | METAL GLAZE | 68 | 5% | 1/8W |
| R2092 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1/10W |
| R2093 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1/10W |
| R2094 | 1-216-170-00 | METAL GLAZE | 68 | 5% | 1/8W |
| R2095 | 1-216-216-00 | METAL GLAZE | 5.6K | 5% | 1/8W |
| R2096 | 1-216-216-00 | METAL GLAZE | 5.6K | 5% | 1/8W |
| R2097 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R2098 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R2099 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2100 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R2101 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2102 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R2103 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2104 | 1-216-295-00 | CONDUCTOR, CHIP | | | |
| R2105 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2106 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2107 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2108 | 1-216-022-00 | METAL GLAZE | 75 | 5% | 1/10W |
| R2109 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1/10W |
| R2111 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2113 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2115 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |

# KP-41S3/41S3K/41S3U
**RM-831 RM-831 RM-831**

**U**

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The componants identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

| REF. NO. | PART NO. | DESCRIPTION | | | REMARK |
|---|---|---|---|---|---|
| R2116 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2117 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2118 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R2119 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R2120 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R2121 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1/10W |
| R2122 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R2123 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1/10W |
| R2124 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1/10W |
| R2125 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2126 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2127 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2128 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2129 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2130 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2131 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2132 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2133 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2134 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2135 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2136 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2137 | 1-216-059-00 | METAL GLAZE | 2.7K | 5% | 1/10W |
| R2138 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| R2139 | 1-216-031-00 | METAL GLAZE | 180 | 5% | 1/10W |
| | | <SWITCH> | | | |
| S2001 | 1-572-084-11 | SWITCH, SLIDE | | | |
| | | <TERMINAL BOARD> | | | |
| TB2001 | 1-537-712-11 | TERMINAL, PUSH | | | |

****************************************************************

MISCELLANEOUS
*****************

| REF. NO. | PART NO. | DESCRIPTION |
|---|---|---|
| | ⚠ 1-223-925-11 | RESISTOR ASSY (HIGH-VOLTAGE) |
| | ⚠ 1-452-790-11 | NECK ASSY |
| | ⚠ 1-452-790-21 | NECK ASSY |
| | 1-505-426-11 | SPEAKER |
| | ⚠ 1-690-270-21 | CORD, POWER (WITH CONNECTOR) 2.5A/250V(KP-41S3K) |
| | ⚠ 1-765-286-11 | CORD, POWER (KP-41S3) |
| | ⚠ 1-776-860-11 | POWER COARD, FILTER (UK) (KP-41S3U) |
| | ⚠ 8-451-463-11 | DEFLECTION YOKE Y829PA2N |
| | ⚠ 8-451-463-21 | DEFLECTION YOKE Y829PA2N2 |
| | ⚠ 8-598-955-11 | BLOCK ASSY, HIGH-VOLTAGE |
| V901 | ⚠ 8-733-496-05 | PICTURE TUBE 07MAC2(R) |
| V902 | ⚠ 8-733-494-05 | PICTURE TUBE 07MAC2(G) |
| V903 | ⚠ 8-733-495-05 | PICTURE TUBE 07MAC2(B) |

****************************************************************

ACCESSORIES AND PACKING MATERIALS
*****************************************

| PART NO. | DESCRIPTION |
|---|---|
| *3-756-296-11 | INSTRUCTION |
| 7-632-203-13 | TAPE, ADHESIVE(19MMX33M) S4008 |

REMOTE COMMANDER
**********************

| PART NO. | DESCRIPTION |
|---|---|
| 1-467-272-11 | REMOTE COMMANDER (RM-831) |
| 9-903-466-01 | POCKET, COVER (FOR RM-831) |

**Sony Corporation**
**Display Company**
**Quality Engineering Dept**

**English**
**96HH02683-1**
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**SONY**

# SERVICE MANUAL

**RE-1 CHASSIS**

| MODEL | COMMANDER | DEST. | CHASSIS NO. | MODEL | COMMANDER | DEST. | CHASSIS NO. |
|---|---|---|---|---|---|---|---|
| KP-41S3 | RM-831 | AEP | SCC-K27A-A | | | | |
| KP-41S3K | RM-831 | OIRT | SCC-K28A-A | | | | |
| KP-41S3U | RM-831 | UK | SCC-K29A-A | | | | |

# CORRECTION-1

File this correction with the Correction and Service manual.

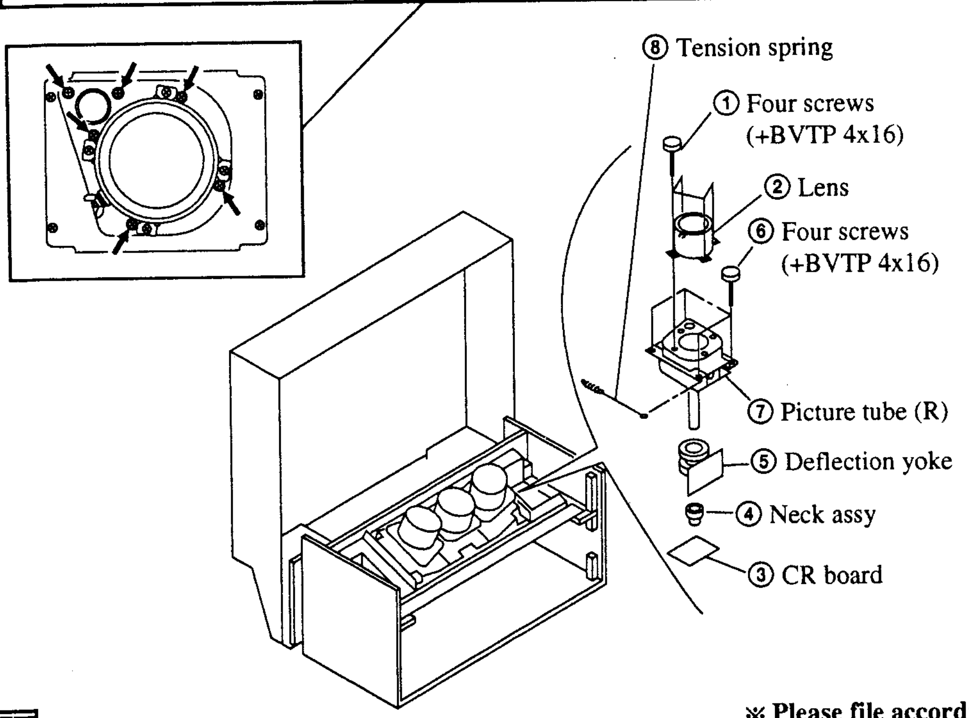
☛ : Corrected portion

## SECTION 2. DISASSMBLY

### 2-1-11. PICTURE TUBE REMOVAL(See page 17 )

☛

CAUTION:Removing the arrow-marked screws is strictly Prohibited.
If removed, it many cause liquid spill.



⑧ Tension spring
① Four screws (+BVTP 4x16)
② Lens
⑥ Four screws (+BVTP 4x16)
⑦ Picture tube (R)
⑤ Deflection yoke
④ Neck assy
③ CR board

※ **Please file according to model size.** .......... ▩

| 41 | | |
|---|---|---|

MICROFILM

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